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To the Director of the U.S. Patent and Trademark Office: Please	e record the attached documents or the new address(es) below.
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(les)
AT&T Wireless Service, Inc.	Name: Cingular Wireless II, LLC.
	Internal Address: Suite 1700
Execution Date(s) 10/27/2005; 4/11/2005	Street Address: 5565 Glenridge Conn.
Additional name(s) of conveying party(les) attached? Yes 🗹 No	
3. Nature of conveyance:	
Assignment Merger	City: Atlanta
Security Agreement Change of Name	State: Georgia
Government Interest Assignment	Country: usa Zip: 30342
Executive Order 9424, Confirmatory License	<u></u>
Other	Additional name(s) & address(es) attached? Yes V No
	document is being filed together with a new application. B. Patent No.(s)
A. Patent Application No.(s)	See Attached Sheets
See Attached Sheets	See Attached Sheets
	See Attached Sheets PRITIES Tached? Vives No. 20
Additional numbers at	taction. [V]
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 513
Name: Cinquiar Wireless, LLC	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 20,520
Internal Address: Attn: Linda Giles	Authorized to be charged by credit card
#1725A	Authorized to be charged to deposit account
Street Address: 5565 Glenridge Connector	Enclosed
Out of the control of	None required (government interest not affecting title)
City: Atlanta	8. Payment Information
State: Georgia Zip: 30342	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: 404-236-6720	b. Deposit Account Number 502450
Fax Number:	Authorized User Name Coulter C. Henry
Email Address: linda.glles@cinqular.com	AUUIOILEG OSEI NEITIE CAUTE C. TEITIE
9. Signature:	9/27/2005
Signature	Date
Coulter C. Henry, Reg. No.: 51,121	Total number of pages including cover sheet, attachments, and documents:
Name of Person Signing	sneet, grading in the deciments.

Patents

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5197092	5889814	6085114	6334188
5541977	5896425	6092110	6343120
5611176	5903845	6118778	6359923
5638081	5905955	6122503	6363127
5641141	5907565	6125122	6373931
5659578	5907801	6134261	6377783
5675590	5909641	6141545	6377787
5675629	5923700	6144851	6389087
5722084	5930362	6157633	639 3014
5724660	5931965	6158008	639 328 3
5732354	5933421	6160839	6400940
5732383	5933778	6167261	64 04388
5737707	5940740	6167274	6405032
5754952	5946615	6169895	640 50 41
5784417	5950125	6175555	6408016
5790551	5950134	6185258	641 18 07
5802470	5953652	6188736	641 8307
5809083	5956636	6188897	641 8318
5819173	5960339	6188899	6427 07 1
5832367	5960340	61 9 5532	643 039 6
5838728	5966642	6201797	64 4222 2
5845198	5974311	6219542	6445716
5845207	5991410	6223042	6445912
5854984	5995830	6229885	6456843
5864543	5995834	6230009	645 974 0
5865503	6002664	6239719	645 98 97
5870722	6002935	6256518	647 004 3
5872814	6006087	6256735	647 01 82
5875187	6014559	6282420	647 362 3
5875394	6035193	6282421	647 7376
5875395	6039624	6 298 235	648 0522
5875398	6047200	6311064	64 807 20
5878328	6052598	6314303	64 904 45
5884300	6064875	6317684	6491528

Patents

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6493430	6636749	6799033
6496699	6640096	D363281
6496700	6647418	D383463
6498930	6650893	D389140
6501803	6650897	D398612
6501951	6662006	5732360
6507866	6675211	5911120
6529593	6681118	6735432
6529726	6687374	6311053
6553237	6697983	6404753
6560209	6700866	6754506
6560455	6704565	5394467
6567671	6707894	5410597
6570983	6725033	5455964
6571094	6741635	5463678
6574292	6744383	5627891
6577723	6748209	5652792
6578173	6751475	6393281
6580914	6754490	6449287
6584144	6760778	D361568
6584175	6765869	D363068
6584317	6765870	D366482
6584321	6768714	D370910
6587700	6771634	D371553
6590533	6771961	5668993
6591098	6775270	5724584
6600776	6775329	5999916
6603966	6775544	6282519
6603984	6775549	6332167
6611692	6778527	6658488
6621851	6782039	67 0822 6
6628194	6782259	
6628935	6785258	
6630883	6795702	

Patent Applications

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10/455125	09/314330	09/752487	10/253403
10/434385	09/479066	10/347504	10/324494
08/571050	10/644641	10/024833	10/324354
10/805247	09/802872	10/086192	10/324159
10/814574	09/884724	10/085491	10/324870
10/647105	09/884730	10/090265	10/325408
10/406912	10/819944	10/039577	10/700301
10/082402	09/476461	09/995327	60/423224
09/168919	09/580689	60/337892	10/445173
10/147408	09/745268	10/162304	10/364421
09/828859	09/306761	10/473926	10/346497
10/866994	10/890298	10/091047	10/324984
08/882804	09/745209	09/972572	10/325566
10/041500	09/688401	10/630646	10/325270
09/896481	09/739044	10/036151	10/325032
10/802492	09/707671	10/036109	10/325322
10/214315	09/703858	09/893869	10/281651
09/535340	09/899956	08/868407	10/617437
10/099992	09/879351	10/456052	10/324613
10/206963	09/867989	09/900773	10/324667
10/241432	10/409770	10/080988	10/410662
10/419098	09/879349	10/160656	10/410663
09/825894	09/714036	10/017629	10/612970
10/120548	09/714035	10/209754	10/833412
10/307668	09/714034	10/160695	10/609043
10/673439	09/714033	10/259558	10/383976
10/389010	09/714032	10/690468	09/999048
08/994831	09/714031	10/155917	10/838553
10/017042	09/968528	10/295233	10/873 5 67
09/474138	10/862773	10/840810	09/55 76 72
10/426046	10/885427	10/282742	10/046243
09/648947	09/742313	10/282909	10/177461
10/884986	10/322218	10/279170	10/176643
09/315088	09/971080	10/634977	09/535365

Patent Applications

09/546794	60/519947	10/725468	10/336640
10/414576	10/821325	10/457406	10/336627
09/670286	10/867957	09/335127	10/662752
09/502655	60/539780	10/790070	10/462948
10/120710	60/549920	09/724577	09/920903
09/511168	10/881672	09/589241	10/885427
09/474839	60/588307	09/921015	08/850096
09/665780	60/588110	10/943500	09/063765
10/028573	60/590185	09/467712	09/204048
10/767246	60/590229	09/467653	10/005095
09/618653	10/365116	09/723648	10/334343
10/036315	60/356579	09/853137	09/326088
09/616128	60/356578	09/917821	10/939366
09/879350	09/406278	10/895188	10/850109
09/874570	10/011554	09/991549	09/664571
09/900779	09/734157	09/989311	09/591043
09/900777	09/945868	08/791860	09/593215
09/878555	09/801635	09/784901	09/593547
10/627192	09/783843	10/006936	09/592961
60/399042	09/8 79 575	09/850181	09/594467
10/116160	09/451579	09/855117	10/929732
10/751672	10/211929	10/140135	09/723421
10/615892	10/622106	08/528292	10/922109
10/773555	09/332497	08/925446	09/795630
10/685616	10/852215	10/267147	09/724774
60/520073	08/526066	10/871289	09/982952
10/685614	08/526027	10/85 766 6	10/131947
60/543952	10/853246	10/391895	10/662639
10/776507	10/197608	09/987775	10/662656
60/557153	10/949313	10/199 10 0	10/950034
10/821608	10/921822	10/334451	10/850888
10/822187	10/937300	10/326700	10/938569
10/763862	09/135348	10/33 6227	10/918697
60/562785	09/135086	10/336229	10/941805

Patent Applications

10/941247

10/933677

10/940576

10/939103

29/213592

10/367981

PATENT ASSIGNMENT AGREEMENT

THIS PATENT ASSIGNMENT AGREEMENT ("Assignment") is executed by and between New Cingular Wireless Services, Inc., a Delaware corporation ("Assignor") f/k/a AT&T Wireless Services, Inc., on the one hand, and Cingular Wireless II, Inc., a Delaware corporation ("Assignee"), on the other hand.

WHEREAS, Assignor is the owner of certain patentable inventions, patent applications and patents (as disclosed and set forth in Schedule A; collectively, the "Patents"), which Assignor desires to assign to Assignee; and

WHEREAS, Assignee desires to accept such assignment of the Patents.

NOW, THEREFORE, in consideration of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

- 1. Assignment of Patents. Effective as of the date hereof, Assignor assigns, transfers and conveys to Assignee, its successors, assigns and legal representatives, all of Assignor's right, title and interest in and to the Patents, all agreements and contracts of Assignor related to such Patents (the "Related Agreements") and the improvements and inventions disclosed in said Patents throughout the world, and all divisions, reexaminations, reissues, substitutions, continuations, continuations-in-part and extensions thereof, including the right to file applications and obtain patents, utility models, industrial models and designs for said inventions and improvements in Assignee's own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said inventions and all rights to register said inventions in appropriate registries. Assignor authorizes and requests the Commissioner of Patents and Trademarks and any foreign registrar or governmental authority to issue all patents on said applications or applications resulting therefrom to said Assignee, as assignee of Assignor's entire interest. Assignor agrees that it will communicate to said Assignee or its representatives any facts known to Assignor respecting said improvements and inventions, and, at Assignee's expense, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns and nominees, to obtain and enforce proper protection for said Patents in all countries, and asserts that it will not execute any agreements inconsistent therewith. Assignee acknowledges that Assignor's assignment of any jointly owned Patent identified on Schedule A shall be subject to any rights such joint owner may have in such Patent.
- 2. <u>Assumption</u>. Effective as of the date hereof, Assignee hereby assumes the due and full payment and performance of all of the liabilities and obligations of Assignor under the Related Agreements.
- 3. Governing Law. This Assignment shall be governed by and construed in accordance with the laws of the United States of America and of the State of Delaware.

- 4. <u>Successors and Assigns</u>. This Assignment shall inure to the benefit of and be binding on the successors and assigns of both parties.
- 5. Patents Subject to Consent. To the extent that any of the Assignor's right, title or interest in and to the Patents or any other rights, contracts, agreements or assets of the Assignor related thereto and/or liabilities or obligations of Assignor purported to be assigned hereunder may not be assigned, transferred or conveyed to, or assumed by, Assignee without the consent, release, authorization or waiver of any third party and such consent, release, authorization or waiver has not been obtained prior to the date hereof (such Patents and other rights, contracts, agreements and assets, the "Non-Transferable Patents" and such liabilities and obligations, "Non-Transferable Liabilities"), this Assignment shall not constitute an assignment, transfer, conveyance or assumption or an attempted assignment, transfer, conveyance or assumption thereof. In this circumstance, this Assignment shall to the extent possible under the Non-Transferable Patent and applicable law constitute an equitable assignment by Assignor to Assignee of all of Assignor's right, title and interest in and to, the Non-Transferable Patents and Assignee shall be deemed to be Assignor's agent for the purpose of paying, performing or discharging the Non-Transferable Liabilities on behalf of Assignor. Assignor shall take all actions reasonably requested by Assignee to provide Assignee with the benefits of the Non-Transferable Patents, including with respect to the enforcement of rights with respect thereto. Assignee shall, with respect to the Non-Transferable Liabilities, pay, perform or discharge in accordance with their terms all liabilities and obligations of Assignor under the Non-Transferable Liabilities. If Assignor is unable to effect an equitable assignment of any Non-Transferable Patent, Assignor shall transfer to Assignee an amount of cash equal to the fair market value (determined as of the date of this Assignment) of such Non-Transferable Patent.

[signatures on following pages]

Executed this 21th day of October, 2004.

Assignor: NEW CINGULAR WIRELESS SERVICES, INC. f/k/a
AT&T Wireless Services, Inc.

By:

Name: Stephen A. McGraw

Title: Vice President - Carparate Developmen

APPROVED:

STATE OF _____

GEORGIA FULTOR

On this \Im day of October, 2004, before me, a Notary Public in and for the State and County foresaid, personally appeared $\underbrace{5 + phen}_{COW}$ known by me to be the person above named and an officer of New Cingular Wireless Services, Inc., duly authorized to execute this Assignment Agreement on behalf of New Cingular Wireless Services, Inc., who signed and executed the foregoing instrument on behalf of New Cingular Wireless Services, Inc.

Notary Public My Commission Expires:

Skery of Harrey

SHERRY L GARRETT - NOTARY PUBLIC

County of DeKalb



State of Georgia

My Commission Expires Oct. 16, 2005

Acknowledged this 27th day of October, 2004.

Assignee: CINGULAR WIRELESS II, INC.

By:

Title: Vice Prexident-Corporate Development

*FPRCYELY

STATE OF COUNTY OF

On this 27 day of October, 2004, before me, a Notary Public in and for the State and County foresaid, personally appeared Stephen Mc Gaw known by me to be the person above named and an officer of Cingular Wireless II, Inc., duly authorized to execute this Assignment Agreement on behalf of Cingular Wireless II, Inc., who signed and executed the foregoing instrument on behalf of Cingular Wireless II, Inc.

Notary Public My Commission Expires:

Sherry & Harrett SHERRY L. GARRETT - NOTARY PUBLIC

County of

State of Georgia

My Commission Expires Oct. 16, 2:)05

Schedule A

Patents

All inventions and trade secrets and related rights of Assignor not otherwise listed below

Docket	Application	Patent		Country	Application	Grant	Title
Number	Number	Number	Owner	Name			Antenna for Enhanced
9	001100663	5638081	AT&T Wireless	United States	15-Jun-95	10-Jun-97	Radio Coverage
145.05	001490000	20000	AT&T Wireless	United States	07-Jun-95	09-Sep-97	Antenna
148.US	29/041775	U383483		European Patent	06-Oct-94		Antenna Mounting System
149.EPC	95902387		AT&T Wireless	COLIVERINO			
21017	1965220	5641141	AT&T Wireless	United States	06-Jun-95	24-Jun-97	Antenna Mounting System Arrangement of Displays
149.03				I Inited States	23-Sep-94	13-Jan-98	for a Wireless Communications Terminals
150.US	29/024956	D389140	AT&I Wireless	20000	0	17.0ct.05	Wireless Communications Terminal
153 US	29/024955	D363281	AT&T Wireless	United States	23-Jun-94	200-11	Personal Communicator
90	09/070410	6587700	AT&T Wireless	United States	26-Nov-97	01-Jul-03	With Flip Element Display Personal Communicator
154.US.C2	00/8/3/10		AT&T Wireless	United States	05-Jun-03		With Flip Element Display
154.US.C2(1)	10/455125		Diameter Control				Concatenated Trellis
					e.		Coded 16 Star QAM
							System for Transmission of Data Over Cellular Mobile
	0.01	D-047609749-0	AT&T Wireless	Brazil	22-Nov-95	17-Feb-04	Radio High Rate Reed-Solomon
155.BK	FIBOOS/49-0					·· .	Concatenated Trellis
							System for Transmission of
	*		-		90 m	•	Data Over Cellular Mobile Radio
155.CA	2203903		AT&T Wireless	Canada	CE-A0N-77		

ATL01/11768196v1

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Title	High Rate Reed-Solomon Concatenated Trellis Coded 16 Star OAM System for Transmission of	Data Over Cellular Mobile Radio	High Rate Reed-Solomon Concatenated Trellis Coded 16 Star DAM System for Transmission of	Radio	High Rate Reed-Solomon Concatenated Trellis Coded 16 Star QAM System for Transmission of Data Over Cellular Mobile Radio	Cyclic Treilis Coded Modulation	Cyclic Trellis Coded Modulation	Cyclic Trellis-Coded Modulation	Cyclic Trellis-Coded Modulation	System and Method for Wireless Transmission of	Digital Data Using Differentially Encoded Pilot Words	Differentially Encoded Pilot Word System and Method				
Grant Date		16-Mar-00		19-Aug-97	17-Nov-98	13-Apr-04	25-May-00	07-Oct-97	03-Aug-99	21-Jul-98	25-May-99	10-Jun-03			17-Jul-03	
Application Date		22-Nov-95		23-Nov-94	06-May-97	22-Nov-95	22-Nov-95	23-Nov-94	09-Jul-97	11-Dec-95	17-Nov-95	04-Jan-02	07-May-03		22-Nov-95	22-Nov-95
Country Name		Mexico		United States	United States	Brazil	Mexico	United States		Brazil	Canada					
Owner		AT&T Wireless	. • •	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless		AT&T Wireless	AT&T Wireless
Patent Number		195559		5659578	5838728	mailed	196647	5675590	5931965	5784417	5907565	6578173	9		PI9509910-7	
Application Number		9703830		08/344156	-626907	P19509908-5	9703831	08/344111	08/890507	08/570289	08/581477	10/039038	10/434385		PI9509910-7	2203902
Docket Number		155.MX	<u>. </u>	133.03	155.US.C1	156.BR	156.MX	156.US	156.US.C1	156.US.D1	156.US.D2	156.US.D2C1(1)	156.US.D2C1(2)		157.BR	157.CA

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner				for Wireless Transmissions of Digital Data
							System and Method for
						,	Wireless Transmission of
							Digital Data Using Differentially Encoded Pilot
			AT&T Wireless	Mexico	22-Nov-95	16-Mar-00	Words
157.MX	9703832	096681	Aldi Wildias				Differentially Encoded Pilot
							for Wireless Transmissions
			ATOT Mirologe	United States	23-Nov-94	15-Sep-98	of Digital Data
157.US	08/344238	5809083	Alga Wildiess				Location Registration
							Communicator Such as a
		. !		Cormany	31-Oct-91	14-Jan-98	Cellular Telephone
177.DE	566582	69128727.9	Ala Wireless	Coliniany			Location Registration
					-		System for a Personal
	-						Communicator Such as a
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V 1000000	565582	AT&T Wireless	Denmark	31-Oct-91	14-Jan-98	Cellular Lelephone
177.08	32300021.4	100000			·		Cyctom for a Personal
				-			Communicator Such as a
					34-Oct-91	14-Jan-98	Cellular Telephone
177.FR	92900021.4	566582	AT&T Wireless	rrance	200		Location Registration
							System for a Personal
							Communicator Such as a
			and tellering	Great Britain	31-Oct-91	14-Jan-98	Cellular Telephone
177.GB	92900021.4	566582	Al&I Wireless	Olean Chica			Location Registration
							System for a Personal
				•			Communicator Sucri as a
		66560	AT&T Wireless	Sweden	31-Oct-91	14-Jan-98	Cellular Telephone
177.SE	290290	200202					System for a Personal
					,		Communicator Such as a
				1	31-Oct-01	14-Jan-98	Cellular Telephone
177.SP	566582	2112309	AT&T Wireless	Spain	200-10		Location Registration
							System for a Personal
							Communicator Such as a
	04/606600	5107002	AT&T Wireless	United States	31-Oct-90	23-Mar-93	Downered Down Selection
177.US	07/000223	3131032					of a Preferable Wireless
	•					*	Communications Service
		7100221	AT&T Wireless	Canada	21-Oct-96	17-Apr-01	Provider in a Multi-Service
206.CA	2188334	Z100024					•

Docket Application Patent Country Application Number Number Owner Name Date 206.EPC 96120004.5 77975.1 AT&T Wireless European Patent 12-Dec-96 10 206.BK 96120004.5 77975.1 AT&T Wireless Great Britain 12-Dec-96 10 206.BK 96233 202858 AT&T Wireless Great Britain 12-Dec-96 10 206.US 96233 202858 AT&T Wireless United States 12-Dec-96 10 206.US 1066.US AT&T Wireless United States 12-Dec-96 10 206.US 1066.US AT&T Wireless United States 14-Jun-99 20 206.US 205.US AT&T Wireless United States 14-Jun-99 20 207.PCT PCTAUS97710095 AT&T Wireless Description 09-Jun-97 20								
96120004.5 779751 AT&T Wireless Convention 12-Dec-96 96120004.5 779751 AT&T Wireless Great Britain 12-Dec-96 966233 202958 AT&T Wireless Mexico 09-Dec-96 1065558 AT&T Wireless United States 12-Dec-95 9706556 AT&T Wireless United States 29-Nov-00 9710656 AT&T Wireless Brazil 09-Jun-97 9710656 AT&T Wireless Brazil 09-Jun-97 Patent O9-Jun-97 AT&T Wireless Brazil 09-Jun-97	Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title
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Docket Application Patent Number Owner Country Name Number Number Number Owner Name 210.US 08/671745 6035193 AT&T Wireless United States 211.CA 2195494 2195494 AT&T Wireless Canada 211.EPC 97101730.6 6411807 AT&T Wireless United States 211.LSC1 10x051713 6560455 AT&T Wireless United States 213.CA 2195487 AT&T Wireless United States 213.CA 2195487 AT&T Wireless United States 213.CA 2195487 AT&T Wireless Canada 213.LS 2195591 AT&T Wireless United States 218.CA.CP1 371205 200820 AT&T Wireless United States 218.US.CP1 371205 5724660 AT&T Wireless United States 221.CA 2191143 2191143 AT&T Wireless United States 221.US 08657636 AT&T Wireless United States		Ammiliantian		
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Application Number Patential Number Number 2184424 2184424 239633/1996 200024 965014 200024 08/550130 5865503 2190045 6963010	Patent Number	Owner	Country	Application	Date	Q#!L	
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3016354.7		AT&T Wireless	COLIVERINOLI			Customer Activation	
				06.00F.06	24-Sep-03	System for Canonar Network	
96119565.8 778716	116	AT&T Wireless	Great Britain	25.50		Customer Activation	
	·.			90 000		System for Cellular Network	
4103133.8		AT&T Wireless	Hong Kong	02-080-00		Customer Activation	
			•	90 000	 -	System for Celiulal Network	
324896/1996	·	AT&T Wireless	Japan	05-060-00		Customer Activation	
				46 1:00		System for Cellular Network	
2003-170351		AT&T Wireless	Japan	- In-101-01		Customer Activation	
				28.Nov-96	07-Jan-04	System for Cellular Network	
965918 218	218372	AT&T Wireless	Mexico			Customer Activation	
	,	AT&T Wireless	Netherland	05-Dec-96	24-Sep-03	System for Centural Network	·

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Docket	Application	Patent	Owner	Country	Application Date	Grant Date	Title
in the second		3470073	AT&T Wireless	United States	19-Jul-00	03-Dec-02	Customer Activation System for Cellular Network
235.03.07	09/019108 40/22/67/64	045U443	AT&T Wireless	United States	23-Aug-02	20-Apr-04	Customer Activation System for Cellular Network
235.03.01(1)	10/814574	,	AT&T Wireless	United States	31-Mar-04		Customer Activation System for Cellular Network
236.CA	2231452	2231452	AT&T Wireless	Canada	06-Sep-96	25-Jun-02	Cordless Cellular System Base Station
236.CA.D1	2323253		AT&T Wireless	Canada	06-Sep-96	·	Cordless Cellular System Base Station
236.CA.D2	2335283		AT&T Wireless	Canada	06-Sep-96		Cordless Cellular System Base Station
236.CA.D3	2335275		AT&T Wireless	Canada	96-Sep-96		Cordless Cellular System Base Station
236.EPC	96930783.4		AT&T Wireless	European Patent Convention	96-Sep-96		Cordless Cellular System Base Station
236 FPC D1	2077853.6		AT&T Wireless	European Patent Convention	96-deS-90		Cordless Cellular System Base Station
236 EDC D3	2077852 8		AT&T Wireless	European Patent Convention	96-deS-90		Cordless Cellular System Base Station
230.EF 0.D2	3103379.2		AT&T Wireless	Hong Kong	13-May-03		Cordless Cellular System Base Station
236 HK2	3403378 3		AT&T Wireless	Hong Kong	13-May-03		Cordless Cellular System
236 10	0.512751		AT&T Wireless	Japan	06-Sep-96	·	Cordless Cellular System Base Station
200.Jr	081820	202590	AT&T Wireless	Mexico	06-Sep-96	22-Jun-01	Cordless Cellular System Base Station
236.15	260934	5675629	AT&T Wireless	United States	08-Sep-95	07-Oct-97	Cordless Cellular System Base Station
236 US D2/1)	10/279866	6681118	AT&T Wireless	United States	25-Oct-02	20-Jan-04	Cordless Cellular System
236 US D3(1)	10/235039	6611692	AT&T Wireless	United States	04-Sep-02	28-Aug-03	Cordless Cellular System
236.US.D3(2)	10/647105		AT&T Wireless	United States	22-Aug-03		Cordless Cellular System
239.CA	2261927	2261927	AT&T Wireless	Canada	11-Jul-97	18-Nov-03	Mobile Station TMSI

-		Country	Country		Application	Grant	
n Patent Nimber Owner	Owner		Name		Date	Date	Title
Euro Euro			European Pate	핕	11-Jul-97		Method for Allocating a Mobile Station, TMSI
1.3 AIGHESS	AIGI WIGGSS				44_111-07	18-Dec-01	Method for Allocating a Mobile Station TMSI
205708 Aigi Wildiess	Al & I Wireless	+	Toiman		15_hd_97	11-Sep-98	Method for Allocating a Mobile Station TMSI
94590 Aireress	A I W I GIGGS				90 171 00	21-Mar-00	Method for Allocating a
08/688626 6039624 AT&T Wireless United States	A1&1 Wireless		Office States].	20.00		Method and Apparatus for
	PAT Wilsolpe		Australia		19-Dec-96	16-Mar-00	Wireless Communication System Organization
	2000						Method and Apparatus for Wireless Communication
96n6n32 Brazil			Brazil		17-Dec-96		System Organization
	TOTAL STORY		Canada		18-Nov-96	24-Oct-00	Method and Apparatus for Wireless Communication System Organization
2190552 A1 01 Wilefess	Alg. Wieless				90	OB-Mar-00	Method and Apparatus for Wireless Communication System Organization
9625564.1 2308952 AT&T Wireless Great Britain	AT&T Wireless	1	Great Britain		08-090-60	20-181	Method and Apparatus for
Elbri			India		22-Nov-96		Wireless Communication System Organization
							Method and Apparatus for
AT&T Wireless			Japan		19-Dec-96		Wireless Communication System Organization
							Method and Apparatus for Wireless Communication
08/575974 S878328 AT&T Wireless United States	AT&T Wireless		United Sta	tes	21-Dec-95	02-Mar-99	System Organization
							Multiple Network
86108830 101482 AT&T Wireless Talwan	AT&T Wireless		Taiwan		24-Jun-97	66-100-00	Concurrent Ringing on
							Multiple Network
08/669805 6405041 AT&T Wireless United States	AT&T Wireless		United Sta	tes	27-Jun-96	11-Jun-02	Telephones
							Multiple Network
AT&T Wireless United States	AT&T Wireless	<u> </u>	United Sta	tes	15-Apr-02	24-Jun-03	Telephones
1124000						·,	Packet Data Transmission
	A T 9 T Wilson		Canada		22-Nov-96	14-Dec-99	Using Dynamic Channel Assignment
	Aldı wireless		7,000				

Docket	Application	Patent	Owner	Country	Application Date	Grant Date	Title	
iagriphi iagriphi			AT&T Wireless	European Patent	22-Nov-96		Packet Data Transmission Using Dynamic Channel Assignment	sion
247.EPC	90939741.3	205.400	AT&T Wireless	Mexico	22-Nov-96	13-Dec-01	Packet Data Transmission Using Dynamic Channel Assignment	slon
VM: 147	077406	00000		Patent Cooperation Treat	22-Nov-96		Packet Data Transmission Using Dynamic Channel Assignment	sion
247.PCI	PC1/US96/18/43	5790551	Alat Wireless	United States	28-Nov-95	04-Aug-98	Packet Data Transmission Using Dynamic Channel Assignment	sion
							Method and Apparatus for Providing	s for
							Telecommunication Services Based on a Subscriber Profile Updated	dated
248 BP	384115		AT&T Wireless	Brazil	19-May-97		by a Personal Information Manager	tion
10.01							Method and Apparatus for	s for
							Telecommunication	•
						_	Services Based on a Subscriber Profile Updated	dated
							by a Personal Information	rion
248.CA	2228169	2228169	AT&T Wireless	Canada	19-May-97	18-Feb-03	Manager	
							Method and Apparatus for Providing Telecommunication	<u> </u>
							Services Based on a Subscriber Profile Undated	dated
,				European Patent	10.Mav.97		by a Personal Information	ation
248.EPC	97926592.3		AIQI WIIGIGSS				Method and Apparatus for	is for
							Providing Telecommunication	
							Services Based on a	
							Subscriber Profile Updated by a Personal Information	dated
070	10,500600		AT&T Wireless	Japan	19-May-97		Manager	
240.JF	000000-01						Method and Apparatus for	s for
						00 tun 03	Telecommunication	
248.MX	980829	214649	AT&T Wireless	Mexico	19-May-97	CO-LINC-SO	Selvices Deserving	
						•		

	Title	Subscriber Profile Updated by a Personal Information Manager	Method and Apparatus for	Províding Telecommunication	Services Based on a	Subscriber Profile Updated	by a Personal Information	Method and Apparatus for		Telecommunication	Subscriber Profile Updated	by a Personal Information	Manager	מיים בשמשלים מיים	Telecommunication	Services Based on a	Subscriber Profile Opualed by a Personal Information		Method and Apparatus for	Providing Felecommunication	Services Based on a	Subscriber Profile Updated	er in the second	Method and Apparatus for	Maintaining Channel	Priority in a Multiple	Wireless Continuous System Environment	Method and Apparatus for	Maintaining Channel	Priority in a Multiple	System Environment	
		Subscribe by a Pers Manager	Method a	Providing	Services	Subscrib	by a Pers	Method	Providing	Telecom	Subscrib	by a Per	Manager	Providing	Telecon	Services	Subscrit	Manager	Method	Providing	Service	Subscri	Manager	Method	Maintai	Priority	System	Metho	Mainta	Priority	Systen	
Grant	Date	 									•							18-Jun-98					03-Aug-99						٠		22- Jan-02	
Application	Date						20 17511 02	18-May-87	*				19-May-97				•	30-May-97					04-11m-96	20.40		٠.		11-Jun-9/			44 1.5 07	77-177
Country	Name							Norway		-	Patent	Cooperation	Treaty					Taiwan				:	Cototo Ctotoc	United States			:	Brazil			-	מבאבת:
	Owner							AT&T Wireless					AT&T Wireless					Coclosias Tota	Algi Wildigs					AT&T Wireless	•			AT&T Wireless	٠.			ATPT Wirelace
111111111111111111111111111111111111111	Mumbor							,	-										93010					5933778								
	Application	Number					<u> </u>	19980461				···	DCT// IS97//08455	200000000000000000000000000000000000000					86107435					888849				9706555	2222			
·		Number				•		248.NO 11					T70 010	+	· .				248.TW (248.US		9.		260 00	230.01	•		

Docket	Application	Patent	Owner	Country	Application Date	Grant Date	Title	
							Method and Apparatus for Maintaining Channel Priority in a Multiple Wireless Communication	
250.MX	981511	202991	AT&T Wireless	Mexico	11-Jun-97	06-Jul-01	System Environment	
							Method and Apparatus for Maintaining Channel Priority in a Multiple	
			÷	٠			Wireless Communication System Environment Method and Apparatus for	
			-				Maintaining Channel Priority in a Multiple	
250.TW	86108843	96577	AT&T Wireless	Taiwan	23-Jun-97	16-Dec-98	Wireless	
							Method and Apparatus for Maintaining Channel Priority in a Millible	
91036	08/673808	5066642	AT&T Wireless	United States	28-Jun-96	12-Oct-99	Wireless Communication System Environment	
230.03	00/01/2030	2500045	2000				A Method for Selecting a	
			TOTA	e Posto	2. 2.04.98	01-May-01	Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment	
252.CA	2188329	2188329	Alai Wireless	Callada	20-100-13	2 (2)	A Method for Selecting a	
24. 2. 2. 2.	08420040.2	60628270	AT&T Wireless	Germany	12-Dec-96	21-May-03	Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment	
232.DE	30120010:5	2.70700					A Method for Selecting a	
26.2 ED?	06120010 2	770753	AT&T Wireless	European Patent Convention	12-Dec-96	21-May-03	Preferable Witeress Communications Service Provider in a Multi-Service Provider Environment	
2 - 7.7.7	7.00					ž ž	A Method for Selecting a Preferable Wireless Communications Service	
252 EDC 01	3011438 3		AT&T Wireless	European Patent Convention	12-Dec-96		Provider in a Multi-Service Provider Environment	
1777				÷			A Method for Selecting a Preferable Wireless Communications Service	•
, , , , , , , , , , , , , , , , , , ,	96120010.2	779753	AT&T Wireless	France	12-Dec-96	21-May-03	Provider in a Multi-Service Provider Environment	
	201202100	25.5					-	

Docket	Application	Patent		Country	Application	Grant		
Docker	Application	Nimber	Owner	Name	Date	Date	11116	
Number	Number	Muliba					A Method for Selecting a Preferable Wireless	
		-		-			Communications Service	
	-			·			Provider in a Multi-Service	
				Coot Britain	12-Dec-96	21-May-03	Provider Environment	
252.GB	96120010.2	779753	AT&T Wireless	Gleat Dinaii	20 202-31		A Method for Selecting a	
	,						Preferable Wireless	
			*				Communications Service	
							Provider in a Multi-Service	
	•		ATOT Missipan	Mexico	. 09-Dec-96		Provider Environment	
252.MX	966232		Alai wireiess	Sivoli			A Method for Selecting a	
							Preferable Wireless	
							Communications Service	
					•		Provider in a Multi-Service	
		0,00,10	ATET Wireless	United States	12-Dec-95	09-Jul-02	Provider Environment	
252.US	08/570904	6416318	Alai Wildias				A Method for Selecting a	
							Preferable Wireless	
							Communications Service	
							Provider in a Multi-Service	
			AT9T Mirelese	United States	19-Mar-02	24-Aug-04	Provider Environment	
252.US.C1	10/099944	6722979	AIGH WIIGHGS				A Method for Selecting a	
	:			-			Preferable Wireless	
							Communications Service	
					70		Provider Environment	
252 115 (21/1)	mailed		AT&T Wireless	United States	Zb-May-U4		A Method for Selecting a	
232.00.01(1)							Wireless Service Provider	
			-				in a Multi-Service Provider	
				-			Environment Using a	
*				Canada	21-Oct-96	06-Aug-02	Geographic Database	
253.CA	2188333	2188333	A I & I WITCHESS	Spilled			Method for Selecting a	
							Wireless Service Provider	
				1			in a Multi-Service Provider	
				· .	:	46 1 04	Coographic Database	
253 DF	69632713.908	779752	AT&T Wireless	Germany	12-Dec-96	*D-1107-01	Method for Selecting a	
10.007							Wireless Service Provider	
			٠.				in a Multi-Service Provider	
			•	Furnnean Patent			Environment Using A	
			ATRT Wirelace	Convention	12-Dec-96	16-Jun-04	Geographic Database	
253.EPC	96120005.2	779752	AIGH WHIGHESS				A Method for Selecting a	
	,						Wireless Service Provider	
					10-0-06	02-Jul-01	Environment Using a	
253.MX	966231	202750	AT&T Wireless	Mexico	200000			
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Title)atabase	A Method for Selecting a Wireless Service Provider In a Muttl-Service Provider Environment Using a Geographic Dalabase	nmunication igement	nmunication igement	nmunication sgement	nmunication igement	nmunication igement	Wireless Communication Device With Call Screening	Wireless Communication Device With Call Screening	Wireless Communication Device With Call Screening	Method for Determining Organization Parameters in a Wireless Communication System	Method for Determining Organization Parameters in a Wireless Communication System	Method for Determining Organization Parameters in a Wireless Communication System	Method for Determining Organization Parameters in a Wireless Communication System
Ë	Geographic Database	A Method for Selecting a Wireless Service Provider in a Multi-Service Provider Environment Using a Geographic Database	Wireless Communication Service Management	Wireless Communication Device With Call Screenir	Wireless Communication Device With Call Screening	Wireless Communication Device With Call Screening	Method for Determining Organization Parameter a Wireless Communicat System	Method for Determining Organization Parameter a Wireless Communication System	Method for Determining Organization Parameters a Wireless Communication System	Method for Determining Organization Parameter a Wireless Communication System				
Grant Date	·	18-May-99	14-Oct-03		02-Sep-02	12-Jan-00	26-Dec-00	30-Mar-04	20-May-03		24-Oct-02	·		23-Apr-02
Application Date		12-Dec-95	03-Feb-98	03-Feb-98	03-Feb-98	09-Feb-98	27-Feb-97	11-Aug-98	11-Aug-97	02-Apr-03	01-Apr-97	20-Mar-02	27-Mar-97	06-Mar-97
Country Name		United States	Canada	European Patent Convention	Mexico	Taiwan	United States	Canada	United States	United States	Australia	Australia	Brazil	Canada
Owner		AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number		5905955	2282443		210069	106908	6167261	2244682	6567671		749334			2199310
Application Number		08/570903	2282443	98904684.2	997818	87101700	08/810959	2244682	08/909387	10/406912	16648/97	773877	126070	2199310
Docket Number		253.US	255.CA	255.EPC	255.MX	255.TW	255.US	256.CA	256.US	256.US.D1	258.AU	258.AU.D1	258.BR	258.CA

et Application Patent Number Number Number Number Number A 2311912B A 2311912B A 2170628214 6496700 A 2209528 2209528 A 1992490 A 1992490 A 207169 A 19973158 207169 A 207169 A 207308411997 A 207169 A 207308411997 A 207308	ket Application Patent Owner Country Application Grant Date 150653.6 2311912B AT&TWindless Gneat Britain 01.Apr.97 11-Oct-00 9 1717AAS/97 AT&TWindless India 04.Apr.97 11-Oct-00 9 120 10092402 AT&TWindless United States 04.Apr.97 17.Doc-02 120 10092402 AT&TWindless United States 04.Apr.97 17.Doc-02 120 2209220 AT&TWindless United States 15.Jul-97 17.Doc-02 1 1992490 AT&TWindless Convention 15.Jul-97 17.Doc-02 1 97304542 AT&TWindless Convention 15.Jul-97 14.Abr-02 0 97304562 AT&TWindless Japan 16.Jul-97 14.Abr-02 0 97304562 AT&TWindless Japan 16.Jul-97 14.Abr-02 0 973144 207148 AT&TWindless Japan 16.Jul-97 14.Abr-02 0								
ket Application Patent Number Owner County of the c	ket Application Patent Number Owner County Name Total 1bpr Number AT&T Wireless Great Biffain 01-Apr-97 11-Oct-00 177AAS:97 AT&T Wireless India 04-Apr-97 11-Oct-00 102 10062402 AT&T Wireless United States 04-Apr-97 17-Dec-02 102 10062402 AT&T Wireless United States 25-Feb-02 17-Dec-02 102 1982480 AT&T Wireless Brazil 15-Aur-97 17-Dec-02 103 AT&T Wireless Convention 25-Feb-02 17-Dec-02 1992480 AT&T Wireless Convention 15-Aur-97 12-Aur-01 19086/1997 AT&T Wireless Japan 16-Aur-97 14-Aur-102 X 975114 207169 AT&T Wireless Norwey 16-Aur-97 14-Aur-102 X 975114 207169 AT&T Wireless Norwey 16-Aur-97 14-Aur-102 X 975114 255656 AT&T Wireless Norwey					Country	Application	Grant	
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9706533.8 2311912B AT&T Wineless India 01-Apr-97 11-Oct-00 States AT&T Wineless India 04-Apr-97 11-Oct-00 States Ot-Apr-97 States States Ot-Apr-97 States State	9706533.8 2311912B AT&T Wireless India 01-Apr-97 11-Oct-00 States 1770AAS/97 AT&T Wireless India 04-Apr-97 11-Oct-00 States 04-Apr-97 17-Oct-00 States 10-Oct-02 10-Oct-02 10-Oct-02 10-Oct-02 10-Oct-02 10-Oct-03 11-Oct-03 1	Number	Number	Number	Owner	2			Method for Determining
11,00±00 11,00±00	DD 11-00c1-00 AT&T Wireless Great Bitlain 01-Apr-97 11-00c1-00 P17/MAS/67 AT&T Wireless India 04-Apr-97 11-00c1-00 DD 10062-402 AT&T Wireless United States 04-Apr-97 17-Dec-02 DD 10062-402 AT&T Wireless United States 04-Apr-97 17-Dec-02 C 9730450 AT&T Wireless Brazil 15-Jul-97 17-Dec-02 C 9730452 AT&T Wireless Convention 15-Jul-97 12-Jul-97 C 9730452 AT&T Wireless Convention 15-Jul-97 14-Mar-02 X 975114 207169 AT&T Wireless Norway 08-Jul-97 14-Mar-02 X 975114 207169 AT&T Wireless Norway 08-Jul-97 14-Mar-02 X 975114 207169 AT&T Wireless Norway 08-Jul-97 16-Jul-97 X 975114 AT&T Wireless Norway 08-Jul-97 16-Jul-97 X 959561								Organization Parameters in a Wireless Communication
9706533.6 2311612B	9706533.6 2311612B	_					01-Anr-97	11-Oct-00	System
1170AAS/97 ATET Wireless India 04-Apr-97	1777/MAS/97 AT&T Wineless India 04-Apr-97	258.GB	9706533.8	2311912B	Al&i Wireless				Method for Determining
1770AAS/97 AT&T Wireless India 04-Apr-97 AT&T Wireless AT&T Wireless Japan 04-Apr-97 AT&T Wireless Japan 04-Apr-97 AT&T Wireless United States 17-Dec-02 AT&T Wireless United States 25-Feb-02 AT&T Wireless Brazil 15-Jul-97 AT&T Wireless Canada C3-Jul-97 AT&T Wireless Canada C3-Jul-97 AT&T Wireless Convention 26-Jul-97 AT&T Wireless AT&	5.D2 10/082402 AT&T Wireless Lindia 04-Apr-97 S.D2 10/082402 AT&T Wireless United States 04-Apr-97 S.D2 10/082402 AT&T Wireless United States 25-Feb-02 A 2209528 AT&T Wireless Canada 03-Jul-97 17-Dec-02 PC 97304542 AT&T Wireless Canada 03-Jul-97 12-Jun-01 PC 9730452 AT&T Wireless Convention 26-Jun-97 12-Jun-01 PC 9730452 AT&T Wireless Japan 16-Jul-97 14-Mar-02 W 975114 207169 AT&T Wireless Japan 16-Jul-97 14-Mar-02 W 86109681 95961 AT&T Wireless Talwan 09-Jul-97 16-Mov-98 W 86109681 95961 AT&T Wireless Talwan 09-Jul-97 16-Mov-96 S 008-005681 95961 AT&T Wireless United States 16-Jul-97 16-Mov-96 S 008-005681 95961 AT&				:				Organization Parameters in
117MAS/97 AT&T Wireless Finds Convertion AT&T Wireless Formation AT&T Wireless Linited States Convertion	177MAS/97 AT&T Wireless Tituda O4-Apr-97					(10.4)	04.Apr.97		System
85443/1997 AT&T Wireless Japan 04-Apr-97 D2 0.04628214 6496700 AT&T Wireless United States 0.4-Apr-96 17-Dec-02 D2 10/082402 AT&T Wireless United States 25-Feb-02 17-Dec-02 C 1992490 AT&T Wireless Canada 0.3-Jul-97 12-Jul-07 C 97304542 AT&T Wireless Convention 25-Jul-97 12-Jul-07 C 97304542 AT&T Wireless Japan 16-Jul-97 14-Mar-02 X 975114 207169 AT&T Wireless Norway 08-Jul-97 16-Mov-98 N 86109681 95961 AT&T Wireless Talwan 16-Jul-97 16-Mov-98 N 86109681 95961 AT&T Wireless Talwan 08-Jul-97 16-Mov-98 N 86109681 95961 AT&T Wireless Talwan 16-Jul-97 16-Jul-97	BS442/1997 AT&T Wireless Japan 04-Apr-87 D2 06/628214 6496700 AT&T Wireless United States 04-Apr-96 17-Dec-02 D2 10/082402 AT&T Wireless Brazil 15-Ju-97 17-Juc-02 C 1992490 AT&T Wireless Canada 03-Jul-97 12-Jur-01 C 97304542 AT&T Wireless Convention 26-Jun-97 12-Jur-01 C 97304497 AT&T Wireless Japan 16-Jul-97 14-Mar-02 X 975114 207169 AT&T Wireless United States 16-Jul-97 16-Jul-97 X 975114 205636 AT&T Wireless United States 16-Jul-97 16-Jul-97	258.IN	717/MAS/97		AT&T Wireless	FIGIA	5		Method for Determining
85443/1997 AT&T Wireless Japan O4-Apr-87	B5442/1997 AT&T Wireless Japan 04-Apr-97 D2 0x6628214 6496700 AT&T Wireless United States 04-Apr-96 17-Dec-02 D2 10x082402 AT&T Wireless United States 25-Feb-02 17-Dec-02 C 2209528 2209528 AT&T Wireless Canada 03-Jul-97 12-Jun-01 C 97304542 AT&T Wireless Convention 16-Jul-97 14-Mar-02 X 973114 207169 AT&T Wireless Japan 16-Jul-97 14-Mar-02 X 975114 207169 AT&T Wireless Norway 08-Jul-97 14-Mar-02 N 86109681 95661 AT&T Wireless Talwan 09-Jul-97 16-Jul-96 S 08/08631 AT&T Wireless United States 16-Jul-96 21-Sep-99							••	Organization Parameters in
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Docket	Application	Patent		Country	Application	Grant	• • • • • • • • • • • • • • • • • • • •	
Number	Number	Number	Owner	Name	Date	Date	Title	
262.CA	2259329	2259329	AT&T Wireless	Canada	02-Jun-97	01-Jun-04	TDMA Messaging Service Microcell	vice
282 EDC	07027704 4		AT&T Wireless	European Patent Convention	02-Jun-97		TDMA Messaging Service Microcell	
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262.JP	10-504109		AT&T Wireless	Japan	02-Jun-97		Microcell	
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262.MX	990211		AT&T Wireless	Mexico	02-Jun-97		Microcell	
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262.US	08/672769	5875187	AT&T Wireless	United States	28-Jun-95	23-rep-99	Microcell	
262.US.C1	09/168919		AT&T Wireless	United States	09-Oct-98		I DMA Messaging Service Microcell	<u>8</u>
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263 BB	0710455.8	0710455.8	AT&T Wireless	Brazil	74-Jun-97	10-Dec-02	Communications Service Frotronment	 8 8
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263 500	07032336 8		AT&T Wireless	Convention	24-Jun-97		Environment	
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263.US	08/672907	5845198	AT&T Wireless	United States	28-Jun-95	01-Dec-98	Environment	
265.CA	2215819	2215819	AT&T Wireless	Canada	19-Sep-97	01-Jan-02	Method and Apparatus for	is for

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Docket	Application	Patent		Country	Application	Grant Date	Title
Number	Number	Number	Owner	Name			Providing a Caller ID Alias
							Method and Apparatus for
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VM1.C02				Inited States	08-Oct-96	29-Jan-02	Providing a Caller ID Alias
265.US	2007953	6343120	AT&I WIREIESS	Olimed Clarce			Detection of Fraudulently
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266.US	-65895	5953652	AT&T Wireless	Onlied States	24-2011-24		Method and System for
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08/948497	121508	AT&T Wireless	Taiwan	12-061-90	200	Method for Providing	
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08/948497 2252180					OB-May-01	Exchange	
2252180	6229885	AT&T Wireless	United States	10-Oct-9/	00-Iviay-01	A Method for Allowing a	
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			Movico	09-Oct-98	15-Oct-02	System	Ť
988387	210851	AT&T Wireless	IMEXICO			Method and System for Providing Power to a	
				10.004.07	03-101-01	Wireless System	
08/948777	6256518	AT&T Wireless	United States	10-00-01		Method and System for	
	-					Providing Power to a	
		AT&T Wireless	United States	10-Apr-01		Wireless System	T
09/828859		5				Method and System to	
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Docket	Application	Patent Number	Owner	Country	Application Date	Grant Date	Title
							Secure Equipment
	00111100	440066	AT&T Wireless	Taiwan	03-Oct-97	11-May-00	Automation Using a Personal Base Station
Z04.1VV	00114409	000011	2000				Secure Equipment
01.700	90000		AT&T Wireles	United States	09-Oct-96	23-Feb-99	Personal Base Station
204.03	2000200	20/ 2082	Algi Wildias				Service Transfer to a
285.CA	2202000	2202000	AT&T Wireless	Canada	07-Apr-97	06-Mar-01	Wireless Telephone
						;	Service Transfer to a
285.TW	86105955	92547	AT&T Wireless	Taiwan	05-May-97	25-May-98	Wireless Telephone
285 110	08/644027	5845207	AT&T Wireless	United States	09-May-96	01-Dec-98	Wireless Telephone
203.03	2044000	2040201					System and Method for
							Retrieving Messages From
286.BR	1877348		AT&T Wireless	Brazil	17-Dec-97		a Voice Message System
					•		System and Method for Retrieving Messages From
286 CA	2224GEN -	2221660	AT&T Wireless	Canada	20-Nov-97	13-Feb-01	a Voice Message System
200.00	777	255 1000					System and Method for
				European Patent			Retrieving Messages from
286.EPC	97309357.8		AT&T Wireless	Convention	20-Nov-97		a Voice Message System
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286.JP	9-339534		AT&T Wireless	Japan	10-Dec-97		a voice intessage system
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					70 000 01		2 Voice Messages From
286.MX	9710199		AT&T Wireless	Mexico	10-Dec-97	-	a voice integrable system
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286.NO	97.5816		Al&i Wireless	INDIMAY	20000		System and Method for
					-		Retrieving Messages From
. WIT 980	86118705	114000	AT&T Wireless	Taiwan	11-Dec-97	11-Aug-00	a Voice Message System
700.	866	2001					System and Method for
							Retrieving Messages From
286115	08/766134	6405032	AT&T Wireless	United States	17-Dec-96	11-Jun-02	a Voice Message System
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287.BR	9802303		AT&T Wireless	Brazil	26-Jun-98		Services
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			AT&T Wireless	Canada	04-Jun-98		Services
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Docket Application Patent Country Application Date Title Number Number Number Convenion European Patent 12-Jun-99 Providing Patiglioned Pat							Crant	0
Number N	Docket	Application	Patent		Country	Application	Date	Title
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			ATOT Missions	Norway	08-Jul-97		Activation	
288.NO	19973157		AIGH WHERESS	2			System and Method for	
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288.TW	86109676	96465	AT&T Wireless	Taiwan	09-Jul-97	11-Dec-98	Activation Control Mothad for	Ī,
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			ATOT Missions	United States	30-Oct-00	28-Aug-01	Activation	
288.US.C1	09/702163	6282421	AIQI Wildiess	2000			System and Method for	ō
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	70700000		AT&T Wireless	United States	29-Jun-01		Activation	
288.US.C1(1)	03/030401						System and Method for	ŏ
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288 US C1(2)	10/802492		AT&T Wireless	United States	16-Mar-04		A Mothod and Apparatus	9
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							Programming of	
							Telecommunication	
				Brazil	03-Oct-97		Services	
289.BR	9706687		Al&i Wireless	1380			A Method and Apparatus	atus
							for Over-the-Air	
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289.EPC	9/11/320.0	020240					Method and Apparatus for	13 TO
							Updating Service	
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289.EPC.D1	3023872.6		AT&T Wireless	Convention	16-Jan-98		MODING CHROCK	

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				Country	Application	Grant		
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Number	Number	Number	OWIG				Mobile Communication	
							System and interior for Receiving Intelligent	
				European Patent	70 70		Roaming Information	
	. 0 120000		AT&T Wireless	Convention	07-001-97		A Method and Apparatus	
89.EPC.D2	302007 1.0			-			for Over-the-Air	
							Programming of	
							Telecommunication	
				ranal	08-Oct-97		Services	
OI Dac	275398/1997		AT&T Wireless	Japan			A Method and Apparatus	
76.807 1	200017				•		for Over-the-Air	
		· ·					Programming of Telecommunication	
				•	70 100	07-Aug-02	Services	
211000	077676	209518	AT&T Wireless	Mexico	09-00-97		A Method and Apparatus	
Z89.MX	27072					-	for Over-the-Air	
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		000011	AT&T Wireless	Taiwan	06-Oct-97	05-INIAY-00	A Method and Apparatus	
289.TW	86114585	887011					for Over-the-Air	
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289.05	200137.0						for Over-the-Air	
							Programming of	
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289.US.C1(1)	10/214315		2000				Testing Cellular Services in	
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Docket	Application	Patent		Country	Application Date	Grant Date	Tite
Number	Number	Number	Owner	Palle			Method and Apparatus for
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		201000	ATRT Wirelace	Canada	20-Oct-97	11-Sep-01	From the First Location
296.CA	721866/	/000177	2000				Method and Apparatus for
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							a First Location From a
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230.EFC	37 11 241.1						Method and Apparatus for
							Testing Cellular Services in
							a First Location From a
							Second Location Remote
2	0.000343		AT&T Wireless	Japan	20-Oct-97		From the First Location
780.JF	9-200213						Method and Apparatus for
							Testing Cellular Services in
							a First Location From a
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296.MX	978010	252212	AIGI WIIGIGSS	DOWN			Method and Apparatus for
						,	Testing Cellular Services in
							a First Location From a
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			AT&T Wireless	Norway	13-Oct-97		From the First Location
296.NO	19974723		AIGH WILESS				Method and Apparatus for
							Testing Cellular Services in
							a First Location From a
					•		Second Location Remote
			ATRT Wireless	Taiwan	15-Oct-97	10-Sep-99	From the First Location
296.TW	86115142	10300/	2000				Method and Apparatus for
		·					Testing Cellular Services in
	-	-					a First Location From a
							Second Location Remote
017	70777700	5875308	AT&T Wireless	United States	21-Oct-96	23-Feb-99	From the First Location
290.05	101101101	2000100					•
							Improved Generation of
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297.JP	517588/1998		Algi Wildias				Improved Generation of
100	06444466	403186	AT&T Wireless	Taiwan	03-Oct-97	13-Sep-99	Encryption Key
797.1W	00114400	201201					Improved Generation of
297.US	08/731105	5930362	AT&T Wireless	United States	09-Oct-96	68-IN? /7	Encryption Ney
	00044474	117501	AT&T Wireless	Taiwan	03-Oct-97	23-Apr-02	Mobile Network
230.1W	1 4441 100 1	2011				. :	

					Annlication	Grant		
Docket	Application	Patent		Country	Date	Date	Title	
Number	Number	Number	Owner	Name			Geographic Address	
							Mobile Network	
						A A.12	Geographic Address Translation	
		34001	AT&T Wireless	United States	08-Oct-96	SI-Aug-as	Registration of Mobile	
88.US	1801591	5946615					Packet Data Terminals	
			AT&T Wireless	Canada	06-May-97	23-Sep-03	After Disaster Registration of Mobile	
99.CA	2257423	225/423	5				Packet Data Terminals	
			AT&T Wireless	Canada	06-May-97		After Disaster Registration of Mobile	
99.CA.D1	2404922			ranona Datent			Packet Data Terminals	
			AT&T Wireless	Convention	06-May-97		After Disaster Registration of Mobile	
299.EPC	97922676.8				· ·		Packet Data Terminals	
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299.JP	501587/1998		2000				Packet Data Terminals	
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299.US.D1	09/289362	6771634	AT&T Wireless	United States			Method and Apparatus for Dynamic Negotiation of	
			1000	Brazil	15-Jan-98		Protocols Method and Apparatus for	
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300.TW	87100792	NI-134707	AT&T Wireless	Taiwan	06-uar-17	26. Sep. 00	Dynamic Protocol Negotiation System	
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87110178 110131	Number	Number	iagillon.		Towns	24. lm-98	26-Aor-00	Method of Intelligent Roaming Using Network Information
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980722 980722 1472506 1472506 1892355 1892355 1892355 170347 193809 170347 193809 170341 193809 170341 193809 170272 1	306.BR	9800525-1	0077420	Al & I Wireless	Canada	15-Jan-98	16-Sep-03	Method and Apparatus for Serving Cell Code Assignment
87100967 111208 1472506 6144851 1892355 2221665 9710347 193809 86119522 110272 86119522 110272 2221820 2221820 9710341 5875394	306.CA	080722	001 17777	AT&T Wireless	Mexico	26-Jan-98		Method and Apparatus for Serving Cell Code Assignment
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2221665 2221665 9710347 193809 86119522 110272 08/777341 5875394 9706413-0 2221820 2221820 2221820	307 BR	1892355		AT&T Wireless	Brazil	18-Dec-97		Method of Mutual Authentication for Secure Wireless Service Provision
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MT 010	96110517	104020	AT&T Wireless	Taiwan	22-Dec-97	04-Dec-99	Second Network
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212 CA	2221666		AT&T Wireless	Canada	20-Nov-97		Retrieval of Information
20:00	2001377			European Patent			Method of Wireless
			ATOT Window	Convention	12-Dec-97		Retrieval of Information
313.EPC	9/121958.9		AI & I WII GIGSS				Method of Wireless
2	0.054000		AT&T Wireless	Japan	19-Dec-97		Retrieval of Information
313.21	9-331020						Method of Wireless
313 MY	0710240		AT&T Wireless	Mexico	17-Dec-97		Retrieval of Information
Chick	01105-10				1		Method of Wireless
313.NO	19975935		AT&T Wireless	Norway	17-Dec-97		Kerreval of michiation
					18 Dec.07	17.Dec.99	Retrieval of Information
313.TW	86119180	105649	AI&I WIREIESS	alwaii	2000		Method of Wireless
		0070070	AT&T Wireless	United States	24-Dec-96	10-Dec-02	Retrieval of Information
313.US	08///983	0545840	200011111111111111111111111111111111111				Method of Wireless
242 110 04	10/41000		AT&T Wireless	United States	09-Jun-03		Retrieval of Information
313.03.71	10/413030						Method and Apparatus for
							Data Network Call
318.BR	1767500		AT&T Wireless	Brazil	03-Dec-97		Processing

					411	-
Acitostion	Patent		Country	Application	Grant	Title
	Number	Owner	Name	Date		Method and Apparatus for
T	,		·	10 Nov-07	01-Jan-02	Data Network Call Processing
	2220707	AT&T Wireless				Method and Apparatus for
		ATRT Wireless	European Patent Convention	12-Nov-97		Processing Method and Apparatus for
П		אופוכים				Data Network Call
		ATRT Wireless	Japan	05-Dec-97		Processing Processing for
		2000				Data Network Call
	204379	AT&T Wireless	Mexico	02-Dec-97	26-Sep-01	Processing Method and Apparatus for
1				79-29V		Data Network Call Processing
- 1		AT&T Wireless	Norway	500		Method and Apparatus for
		AT&T Wireless	Taiwan	03-Dec-97	04-Mar-02	Processing Method and Apparatus for
- 1	143991	Alai wiicica				Data Network Call
		ATRI Mirelace	United States	09-Dec-96	12-Sep-00	Processing
	6118778	2000				Data Network Call
		AT&T Wireless	United States	30-Nov-99	17-Aug-04	Processing
- 1	6778527	COLONIA INIC				Stamping a Message
	· ·					Based on a Recipient
				27.Mav-98		Location
		AT&T Wireless	Brazil	27 (alv) 22		A Method for Time-
l						Stamping a Message Based on a Recipient
			0	27-Anr-98		Location
		AT&T Wireless	Canada	20 147 17		Method for Time-Stamping
١	:		European Patent			a Message based on a Recipient Location
		AT&T Wireless	Convention	OG-KPINI-77		A Method for Time-
1						Stamping a Message
					**	Desertion a readpoint
		AT&T Wireless	Japan	27-May-96		Method for Time-Stamping
			Six Of M	28-Mav-98	04-Mar-04	a Message Based on a Recipient Location
	219273	AT&T Wireless	MEXICO			

Docket	Annlication	Datent		Country	Application	Grant	24 pt 1 1
Nimber	Nimber	Nimber	Owner	Name	Date	Date	Title
							A Method for Time-
							Based on a Recipient
CIACCO	4000000	346003	AT&T Wireless	Norway	26-May-98	19-Jul-04	Location
332.NO	19302000	26010					Method for Time-Stamping
							a Message Based on a
332 TW	87108312	111946	AT&T Wireless	Taiwan	28-May-98	13-Jun-00	Recipient Location
							Method for Time-Stamping
							a Message Based on a
332.05	08/868401	6239719	AT&T Wireless	United States	03-Jun-97	29-May-01	Recipient Location
202:-00							Method for Time-Stamping
			·				a Message Based on a
222116.04	- Voasca/ou		AT&T Wireless	United States	05-Apr-01	-	Recipient Location
332.03.01	03/05/3034						Method and System for
							Providing Data
							Communication With a
	0 307 0000		ATRT Wireless	Brazil	28-Mav-98		Mobile Station
333.BK	9806495-9		AIGH WHOLESS				Method and System for
							Providing Data
							Communication With a
				Condo	30.Anr.98	30-Oct-01	Mobile Station
333.CA	2236231	2236231	Alal Wileiess	Callada			Method and System for
							Providing Data
							Communication With a
				Cormony	22-Mav-98	13-Aug-03	Mobile Station
333.DE	98304081.7	69817086.5	AT&I WITCHESS	Cermany	22.		Method and System for
						-	Providing Data
				Europoan Datent		_	Comminication With a
				European ratem	90	43 A.ig 03	Mobile Station
333 EPC	98304081.7	883313	AT&T Wireless	Convention	22-May-90	SO-ROW-CI	INDOING CIRCUIT
			-				Drowiding Data
							Communication With a
				Ciplond		13-Aug-03	Mobile Station
333.FI	98304081.7	883313	Alai Wireless	ווומווו			Method and System for
	•						Providing Data
							Communication With a
		0,000	ATOT Wilespee	France	22-Mav-98	13-Aug-03	Mobile Station
333.FR	98304081.7	883313	Atal Wildias	3			Method and System for
							Providing Data
				-			Communication With a
-			ATET Wireless	Great Britain	22-May-98	13-Aug-03	Mobile Station
333.GB	98304081./	003313	20011111111		۰.		Method and System for
	-						Providing Data
333 ID	154083/1998		AT&T Wireless	Japan	03-Jun-98		Communication With a
9:000							

Docket	Application	Patent		Country	Application	Grant	Title
Number	Number	Number	Owner	Name	Date		Mobile Station
		•					sand Custom for
							Method and System 15:
					•		Communication With a
	•				80 511	08-1an-03	Mobile Station
223 MY	984353	212436	AT&T Wireless	Mexico	01-300-90		Method and System for
AN1.000	200		-				Providing Data
							Communication With a
			ATOT Miroloce	Noway	26-May-98		Mobile Station
333.NO	19982384		Alai Wildigs				Method and System for
							Providing Data
						42 010 03	Mobile Station
	7 1001000	AR1313	AT&T Wireless	Sweden	22-May-98	co-Boy-cı	Method and System for
333.SE	90304001.1						Providing Data
	· .						Communication With a
		477696	AT&T Wireless	Taiwan	28-May-98	17-Apr-U1	Mothed and System for
333.TW	87108311	123000					Drawiding Data
			· ·				Communication With a
				1 Inited Chatee	03. lin-97	21-May-02	Mobile Station
333.US	08/868350	6393014	AT&T Wireless	Office Oraces			Method and System for
							Providing Data
						· ·	Communication With a
			AT&T Wireless	United States	12-Apr-02		Mobile Station
333.US.C1	10/120548				į •		Method and System is:
					· ·		Communication With a
			ATPT Mirologe	United States	10-Sep-04		Mobile Station
333.US.C1(1)	mailed		Alai Wiidida				System and Method for
			AT&T Wireless	Brazil	31-Mar-98		Processing Dropped Calls
334.BR	9801221-5						System and Method for
	2004000	2231938	AT&T Wireless	Canada	12-Mar-98	30-00-01	Tional Building
334.CA	0081077			European Patent	40 1127 08	· ·	System and Method for Processing Dropped Calls
334.EPC	98302011.6		AT&T Wireless	Convention	06-1011-01		System and Method for
			AT&T Wireless	Japan	09-Apr-98		Processing Dropped Calls
334.JP	96520/1998						System and Method for
334 MX	982578		AT&T Wireless	Mexico	02-Apr-98		Processing Dropped Calls
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	acito cilea	Patent			Application	Grant Date	Title	
Docket	Number	Number	Owner	Name	Date		Customized On-Line User	
	9000		AT&T Wireless	Japan 1	14-Oct-98			
53.JP	3220			·.	14-Oct-98		Customized On-Line User Guide	
53.MX	995662		AT&T Wireless	Mexico			Table of Local Section 1997	
			ATPT Wireless	United States	22-Oct-97	04-Jun-02	Guide: Customized On-Line User	·
353.US	08/956130	6400940	ATST Wireless		26-Mar-02	21-Sep-04	Guide A Method and Apparatus	
353.US.C1	10/108275	6795702	AIGH WHO IS				for Filtering Packets Using	
356 CA	2272054	2272054	AT&T Wireless	Canada	20-Oct-98	23-Sep-03	Apparatus for Filtering	
				United States	23-Oct-97	18-Jul-00	Processor Mothod and Annaratus for	-
356.US	08/956993	6092110	Al & I Wireless				Filtering Packets Using a	
			AT&T Wireless	United States	26-May-00	11-Nov-03	Dedicated Processor Method and Apparatus for	
356.US.C1	09/580204	6647418					Filtering Packets Using a	
	00000		AT&T Wireless	United States	30-Sep-03		User Assisted Wireless	
356.US.C1(1)	10/0/3439		-		10-100-98		Fraud Detection	
357.BR	9801993		AT&T Wireless	European Patent			User Assisted Wireless Fraud Detection	
000	98304042.9		AT&T Wireless	Convention	21-May-98		User Assisted Wireless	
337.55	20000		AT&T Wireless	Japan	08-Jun-98		User Assisted Wireless	_
357.JP	10-130/32		20010014074	Mexico	08-Jun-98		Fraud Detection	
357.MX	984569	1-	AIQUANT TO IA		80 2:1		User Assisted Wireless Fraud Detection	
357.NO	19982603		AT&T Wireless	Norway	08-107-60		User Assisted Wireless	
267 TW	87109176	110725	AT&T Wireless	Taiwan	96-Jun-68	12-may-00	System and Method for	
365 BR	9801220-7		AT&T Wireless	Brazil	31-Mar-98	De May 04	System and Method for Processing Dropped Calls	·
7 32C	2231932	2231932	AT&T Wireless	Canada	12-Mar-98	2001-00	System and Method for	
	08302012.4		AT&T Wireless	Convention	18-Mar-98		Processing Dropped Calls	7
303.EFC	1 2000		i .	-		•	*	

Docket	Application	Patent	, and a	Country	Application Date	Grant Date	Title
Number	Number	Number		Cocc	09-Apr-98		System and Method for Processing Dropped Calls
365.JP	96519/1998		Al&i Wireless	Javail			System and Method for
	063670		AT&T Wireless	Mexico	02-Apr-98		Processing Dropped Calls
303.IMA	902379		2 - 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	VesseoN	07-Apr-98		System and Method for Processing Dropped Calls
365.NO	19981595		Al&I Wireless	1		*	System and Method for
365.5F	98302012.4		AT&T Wireless	Sweden	18-Mar-98		Processing Dropped Calls
	02105001	108002	AT&T Wireless	Taiwan	03-Apr-98	27-Mar-00	Processing Dropped Calls
W1.C00	18000170	20000	AT&T Wireless	United States	09-Apr-97	30-Nov-99	System and Method for Processing Dropped Calls
365.US	08/838659	Ocean		sototo besial	12.Dec.97	13-Mar-01	High Bandwidth Delivery and Internet Access for Airborne Passengers
373.US	1710280	6201797	AT&T Wireless	Ollited States	200-31		High Bandwidth Delivery
			220[02]04	1 Inited States	13-Mar-03		and Internet Access for Airborne Passengers
373.US.R1	10/389010		A I & I WITEIESS	COURCE CHECK			A Method and Apparatus
	<u>.</u>						for Determining Billing Rates for Communication
	966604		AT&T Wireless	United States	17-Aug-98		Services
391.05	10000						Mobile Station Roaming in a Multiple Service Provider
30.70	850154	6188897	AT&T Wireless	United States	17-Aug-98	13-Feb-01	Area Station Roaming in
334.03							a Multiple Service Provider
	2122166	6470182	AT&T Wireless	United States	15-Sep-00	22-Oct-02	Area
392.03.01	7132100	701015					Providing a Hold
							Termination Message
			•	Sofeto Poti-II	73-Dec-97	09-Mar-04	Communications Network
394.US	08/997085	6704565	AT&T Wireless	Onliteo States	20-00-00		Method and Apparatus for
							Providing Calling Number Identification Alias in a
				- cpeac	24-Nov-98	26-Feb-02	Communications System
402.CA	2254393	2254393	A I & I WITEIESS	Cartada			Method and Apparatus for
							Identification Alias in a
		60800760	AT&T Wireless	Germany	14-Dec-98	09-May-01	Communications System
402.DE	98123490.9	030000					æ,,,,

Application Number 98123490.9	Patent		Country	Application	Grant	
Number 23490.9			Momo	Date	Date	Title
23490.9	Number	Owner	Name			Method and Apparatus for
23490.9			trate 0			Providing Calling Number Identification Alias in a
123490.9		ATOT Wiseless		14-Dec-98	09-May-01	Communications System
0 0070	926910	Alai Wiididə				Method and Appalatus to
0 00760						Identification Alias in a
0 00760			1	14. Dec. 08	09-Mav-01	Communications System
0.00	926910	AT&T Wireless	France	14-000-30		Method and Apparatus for
		-			٠.	Providing Calling Number
		•				Identification Alias in a
			Croat Britain	14-Dec-98	09-May-01	Communications System
98123490.9	926910	AT&T WIreless	פונפו חוומווו			Method and Apparatus for
						Providing Calling Number
				;	24 1.4 02	Identification Ands III a
7000	200300	AT&T Wireless	Mexico	14-Dec-98	31-Jul-02	Method and Apparatus for
9810631	209390					Providing Calling Number
					•	Identification Alias in a
			Sofoto Feli-II	. 00-1nd-02	09-Dec-03	Communications System
10/188521	6662006	AT&T Wireless	United States	70.00		Methods and Systems for
	-			•		Managing the Routing of
						Packets Over a Hyond
		ATST Wireless	Canada	10-Dec-98		Network
2255475		Aigi Wildias				Methods and Systems for
						Dackote Over a Hybrid
			European Patent			Motion
•		AT&T Wireless	Convention	17-Dec-98		Methods and Systems for
98124229						Memods and Systems to
						Packets Over a Hybrid
				90 000		Network
0640830		AT&T Wireless	Mexico	10-060-90		Methods and Systems for
2000100						Managing the Routing of
						Packets Over a Hybrid
			I Inited States	19-Dec-97		Network
08/994831		AI & I WII GIESS	200			Methods and Systems to
		·.		· ·	·	Managing the Routing of Packets Over a Hybrid
			Linited States	14-Dec-01		Network
10/017042		AT&I WIREIESS	Control Charles	21-Nov-01	18-Nov-03	Aircraft Cockpit Telephony
1918499	6650897	AT&T Wireless	United States	CAOALIZ		A Method and Apparatus
			Canada	20-Oct-98	23-Sep-03	for Updating Address Lists
2272056	2272056	AT&T WIREIESS	California			

100		+40+c0		Country	Application	Grant	
Nimber	Nimber	Number	Owner	Name	Date	Date	Title
						·	for a Packet Filter Processor
444 116	08/046000	8158008	AT&T Wireless	United States	23-Oct-97	05-Dec-00	Method and Apparatus for Updating Address Lists for a Packet Filter Processor
412 IIS	968062	6580914	AT&T Wireless	United States	17-Aug-98	17-Jun-03	Method and Apparatus for Automatically Providing Location-Based Information Content on a Wireless Device
414.US	09/207370	6427071	AT&T Wireless	United States	08-Dec-98	30-Jul-02	Apparatus and Method for Providing Transporting for a Control Signal
416.US	772368	6256735	AT&T Wireless	United States	17-Aug-98	03-Jul-01	Method and Apparatus for Limiting Access to Network Elements
416118 C1	09/839113	6334188	AT&T Wireless	United States	23-Apr-01	25-Dec-01	Method and Apparatus for Limiting Access to Network Elements
722 I IS	00/474138	-	AT&T Wireless	United States	29-Dec-99		System and Method for Integrating Call Delivery for Fixed-Site and Mobility Services
50.774	700000		AT&T Wireless	European Patent Convention	18-Sep-01		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
423.EPC	197,003.4		AT&T Wireless	Japan	18-Mar-03	·	Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
76.534	000000000000000000000000000000000000000		AT&T Wireless	Patent Cooperation Treaty	18-Sep-01		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
423.11S	09/010616	6141545	AT&T Wireless	United States	22~Jan-98	31-Oct-00	Method and System for Remote Call Forwarding of Telephone Calls From Cellular Phone
423.US.C1	10/426046		AT&T Wireless	United States	29-Apr-03		Remote Call Forwarding of Telephone Calls From Cellular Phone

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Title	Method and System for	Telephone Calls From an	IP Connection	Method of Notifying a	Wireless Subscriber as to	Call Payment	Responsibilities	Method of Notifying a	Wireless Subscriber as to	Call Pending	Responsibilities	Aircraft Cabin Telephony	Test Unit	Apparatus and Method for	Batch Processing of	Transactions	Mothod for Droviding	Alternative Network-	Accordated Service	Address Mobile	Registration	Method for Providing	Alternative Network-	Associated Service	Address Mobile	Registration	Method and Apparatus for	Providing Centralized URL	Authorization	Automatic Diagnostic for	Detection of interference in	Wilders Commonwell	System for Securing	System of Outhound	Data Packet Flow in a	Computer Network	And Mothod for	Apparatus and intention for	Financial Transactions	
Grant Date			27-May-03				04-Mar-03									00 400	08-LEO-33											••					10-Aug-04						25-May-99	
Application Date			18.Sep.00	20.00			19-Mav-99				10-Oct-02		25-Aug-00				22-Sep-95				44 11.0 00	20-110-11				07-hil-04			19-May-99				10-Aug-01			70 171	SE-Way-61		22_Sen.95	22 422
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	Owner			AT&T Wireless				AT&T Wireless				AT&I Wireless	ATOT Mississe	Alai Wildiga			AT&T Wireless					AT&T Wireless					AT&T Wireless		are Mississe	AIQI WIICIGSS			AT&T Wireless				AT&T Wireless		:	AT&T Wireless
Patent	Number	•		6571094				6529726							-		507070	3010125	9														6775544	0110011						5907801
Application	Number			2667977				09/315087		•		1371396		09/648947			7000470	7127774			-	252994					10/884986			09/315088			777000	4110077			09/314330			2151858
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ket Application Patent Patent Country Application Grant Date State 1ber Number Number Owner Name Date State 1c1 09473066 AT&TWINGESS United States 21-Jan-00 06-Jan-04 CD 1c1 975473 AT&TWINGESS United States 21-Jan-00 06-Jan-04 AA 1c1 975473 AT&TWINGESS United States 21-Jan-00 06-Jan-04 AA 1c2 975473 AT&TWINGESS United States 31-Aug-89 30-Sep-03 PA 1c2 096467239 5991410 AT&TWINGESS United States 12-Aug-01 PA 1c2 096477417 6594321 AT&TWINGESS United States 17-Jun-03 17-Jun-03 1c3 2026245 AT&TWINGESS United States 17-Jun-03 17-Jun-03 1c4 147314 AT&TWINGESS United States 17-Jun-03 17-Jun-03 1c4 147314 AT&TWINGESS United St								
ket Application Parent Owner Name Date Date Date Strain to the States Date			Datont		Country	Application	Grant	
December Number	Docket	Application	rateilt	Owner	Name	Date	Date	l Itle
C1 975473 AT&TWireless United States 07-Jan-00 O6-Jan-04 O7-Jan-05 O7-Jan-	Number	Number	Number					System and Method for the
09/479066 AT&T Wireless United States 07-Jan-00 05/Jan-00 05/Jan-0								Channels in IS-136
09/479066 AT&T Wireless United States 07-Jan-00 S S S				-		-		Networks for Transmission
09/479066 AT&T Wireless United States 21-Jan-00 06-Jan-04 ACC		٠		•	Chatter Chatter	07-1an-00		of R-Data Packets
094499152 6675211 AT&T Wireless United States 21-Jan-00 06-Jan-04 5 5 5 5 5 5 5 5 5	51122	09/479066	,	AT&T Wireless	United States	20 100		System and Method for
C1 975473 AT&T Wireless United States 21-Jan-00 O6-Jan-04 C2	20.10							Adjusting the Traffic
C1 975473 AT&T Wireless United States 03-Dec-0.3 AT&T Wireless United States 03-Dec-0.3 AT&T Wireless United States 31-Aug-99 30-Sep-0.3 AT&T Wireless United States 19-Aug-0.3 AT&T Wireless United States 12-Mar-0.1 AT&T Wireless United States 12-Mar-0.1 AT&T Wireless United States 12-Mar-0.1 AT&T Wireless United States 17-Jun-0.3 AT&T Wireless AT&T Wireless United States AT-Jun-0.3 AT&T Wireless					I Inited States	21-Jan-00	06-Jan-04	Carried by a Network
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10/644641 AT&T Wireless United States 31-Aug-99 30-Sep-03 F P P P P P P P P P	439.US.C1	975473		Al&I Wireless	2000			Filtered In-Box for Voice
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Docket	Application	Patent		Country	Application Date	Grant	Title
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491.AR	10104905		AIGI WIEESS	8.		*	A Method of Sharing
				Patent Cooperation	•	-	of Wireless Data From a
i i	CCT//150369	•	AT&T Wireless	Treaty	19-Oct-01		Vehicle
491.PCI	PCI/OSOII/SOSO					·	

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2557308	Docket	Nimber	Number	Owner	маше	250		Method of Sharing
2557306 255	Namber	500000000000000000000000000000000000000						Revenue for Transmission
2208-2001						2000		Vehicle
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2557308		•						a Call From a First
2557308	•						·.	Telephone to a Designated
2557306								Telephone in Close
2578558 A161 Wireless United States 2587308 A781 Wireless United States 16-Oct-00 United States 16-Oct-00 MA181 Wireless United States 10-May-01 A781 Wireless United States 10-May-02					_	20-Dec-99		Proximity
2557306	31.60	2578858		AT&T Wireless	\dagger			System and Method for
Company Comp	93.03	2000						Using a Short-Range
2557308						-		Radio Link to Directly
The color of the						•		Communicate Between
2557308								Telephones Connected
2557306								Through a
2557308								Network
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1732 19-Oct-00 170								Electronics for Memory and
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19739044 AT&T Wireless United States 18-Dec-00 United States 18-Dec-00 United States 28-Nov-00 Management AT&T Wireless United States 10-May-01 Management AT&T Wireless United States 07-Nov-00 Management AT&T Wireless United States 01-Nov-00 Management AT&T Wireless United States 01-Nov-00 Management AT&T Wireless Convention 03-May-02 AT&T Wireless AT&T Wi	Ç.	A0/688404		AT&T Wireless	United States	00-00-01		Methods and Systems for
09/739044 AT&T Wireless United States 18-Dec-00 M N N N N N N N N N N N N N N N N N N	497.US	03/000401						Using Network Capabilities
311432 AT&T Wireless United States 28-Nov-00 N N AT&T Wireless United States 28-Nov-00 N AT&T Wireless United States 10-May-01 N AT&T Wireless United States 07-Nov-00 N AT&T Wireless United States 01-Nov-00 N AT&T Wireless United States 01-Nov-00 N AT&T Wireless Convention 03-May-02 AT&T Wireless AT&T Wireless Convention 03-May-02 AT&T Wireless AT&T Wireless Convention AT&T Wireless AT&T Wir					Cotol Latin	18-0-00		to Correct Phone Displays
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09/707671 AT&T Wireless United States 07-Nov-00 09/703858 AT&T Wireless United States 01-Nov-00 AT&T Wireless Convention 03-May-02	501.US	-266747		2000				Modification of Wireless
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09/707671 AT&T Wireless United States U1-Nov-00 09/703858 AT&T Wireless United States 01-Nov-00 European Patent AT&T Wireless Convention 03-May-02		··.				07 800		Network Context
09/703858 AT&T Wireless United States 01-Nov-00 European Patent AT&T Wireless Convention 03-May-02	9	00/707671		AT&T Wireless	United States	07-1001-00	-	A Method for Programming
09/703858 AT&T Wireless United States 01-Nov-00 European Patent AT&T Wireless Convention 03-May-02	503.05	03/10/16/						a Mobile Station Using a
09/703858 United States 01-Nov-00 European Patent AT&T Wireless Convention 03-May-02		٠.						Permanent Mobile Station
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European Patent AT&T Wireless Convention 03-May-02	504115	09/703858		AT&T Wireless	Office Oraco			Method and Apparatus for
2734147 8 AT&T Wireless Convention 03-May-02	20.50			_				Alert Messaging for Audio
2734147 8 AT&T Wireless Convention Locaring Convention					European Patent			Alerting Capable Terminal
	בטפ בסט	2734147.8		AT&T Wireless	Convention	103-141dy 02		

ket Application ber Number Number PCT/US02/13904 99/89956 99/89956 -577934 -577934 1111280.2 2001-146263 7201-146263 660 777937 660 872427 660 99/879351 660	Patent Number	Owner AT&T Wireless AT&T Wireless	Country Name Patent Cooperation Treaty	Application Date	Grant Date	Title
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09/89956 -577934 -577934 C 1111280.2 2001-146263 372427 372427 5 09/879351	*	AT&T Wireless	Chates States	06-Jul-01		Message for Audio Alerting Capable Terminal
-577934 C 1111280.2 C 1111280.2 372427 T PCT/US02/18611 S 09/879351	*	AT&T Wireless				Method and Apparatus for Providing Interactive Text
-577934 C 1111280.2 2001-146263 372427 T PCT/US02/18611 S 09/879351		Alga Wildiess	United States	31-Jul-01		Messages During a voice
1111280.2 2001-146263 372427 PCT/US02/18611			00000			Method and Systems for Managing Customizable
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2001-146263 372427 T PCT/US02/18611 09/879351	-		•			Managing Customizable Content on Wireless Data
372427 T PCT/US02/18611 09/879351		AT&T Wireless	Japan	16-May-01		Devices
372427 F PCT/US02/18611 09/879351				44 May 04	05-Aug-03	Methods and Systems for Managing Information on Wireless Data Devices
	984	AT&T Wireless	United States	10 KBINI-11	R	Using Wireless Cookles to
		,	Cooperation			Deliver Network-Based
		AT&T Wireless	Treaty	12-Jun-02		Using Wireless Cookies to
			Linitod States	12-lin-01		Deliver Network-Based Location Information
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*		•			-	Service to Private Network
519 US		AT&T Wireless	United States	30-May-01		System and Method for
						Using a Temporary Flectronic Serial Number
				70		for Over-the-Air Activation of a Mobile Device
520.AR 10105179		AT&T Wireless	Argenuna	D-AON-CO		System and Method for
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	2358175		AT&T Wireless	Canada	12-22-50		System and Method for
20.02	20000						Using a Temporary
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	•						Electronic Serial Number
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				1	07-Nov-01		of a Mobile Device
מו טכצ	2002-558719		AT&T Wireless	Japan	0-101-10		System and Method for
20.35	2000 4004						Using a Temporary
							Electronic Serial Number
							for Over-the-Air Activation
	-	:			01-Nov-01		of a Mobile Device
ESO MY	DA/a/2001/011175		AT&T Wireless	Mexico	0-404-10		System and Method for
250.IVA							Using a Temporary
				Datent			Electronic Serial Number
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				Troops	07-Nov-01		of a Mobile Device
520 PCT	PCT/US01/47711		AT&T Wireless	lieary			System and Method for
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•				11-ited Chattee	07-Nov-00	08-Jul-03	of a Mobile Device
520.13	09/707593	6591098	AT&T Wireless	Office States			System and Method for
20.020							Using a Temporary
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520.US.C1	10/409770		AT&T Wireless	חווופח סופופט			System and Method for
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		-	2404 1862-000	Venezuela	05-Nov-01		of a Mobile Device
520.VZ	2001-002318		AIGI WIIBIBSS	Datent		_	Using a Wireless Cookle to
				Cooperation			Deliver Mobile-Based
		-		Treaty	12-Jun-02		Location information
525.PCT	PCT/US02/18612		Al&i wireless	11001			

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0 -							Using a Wireless Cookle to Deliver Mobile-Based
0 -				United States	12-Jun-01		Location Information
	349		AIGI WIIGIGSS	Compo Compo			A Short Message Point-to-
			•				Point Protocol Gateway
							Having a Standard
			AT&T Wireless	Canada	16-Nov-01		Interface
				European Patent	18-Nov-01		An SMPP Gateway Having a Standard Interface
	87.3		AT&T Wireless	Convention	2000		
				Cooperation			An SMPP Gateway Having
	PCT/US01/43671		AT&T Wireless	Treaty	16-Nov-01		a Standard Interface
							An SMPP Gateway Having
			ATPTMireless	United States	16-Nov-00		a Standard Interface
	1036		Atal Wildias				Method of Delivering Short
							Messages Using an SMPP
							Gateway With a Standard
152 152	2035	•	AT&T Wireless	United States	17-Nov-00		Interface
							Mothod of Rinding to a
			STOT VANCOUS	United States	17-Nov-00		SMPP Gateway
527.US3 09/714034	4034		AIGI WIIGIGSS	2000			A System and Method for
							Performing Anti-Spam Control Using a SMPP
			ATRT Wireless	United States	17-Nov-00		Gateway
527.US4 09/714033	4033		200				A System and Method for
			AT&T Wirelose	United States	17-Nov-00		in a SMPP Gateway
527.US5 09/714032	4032		Coopera March				A System and Method of
···_		· -	AT&T Wireless	United States	16-Nov-00		a SMPP Gateway
527.US6 09/714031	4031		Section 1815	Patent			-
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528.PCT	PCT/US02/11450		AT&T Wireless	Treaty	12-Apr-02		Scrolling Display for Mobile
		000000	ATOT Missiose	United States	10-Apr-02	28-Sep-04	Telephone Text Messaging
528.US 10/12	10/120475	6/99033	2000	2040 F-11-11	20.00		Network Access Using Network Identification
530.US 09/96	09/968528		AT&T Wireless	United States	0-00-20		Shared-Revenue Billing
1010400B	. 800		AT&T Wireless	Argentina	18-Oct-01		System for Transmission of

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Title	Wireless Data From a Vehicle	Apparatus and Method for Monitoring a Wireless Device Associated With a Vehicle	Shared-Revenue Billing System for Transmission of Wireless Data from a Vehicle	Shared-Revenue Billing System for Transmission of Wireless Data from a Vehicle	Methods and Systems for Monitoring Data Communication of a Wireless Device Associated with a Vehical or Other Device	Shared-Revenue Billing System for Transmission of Wireless Data from a Vehicle	Methods and Systems for Monitoring Data Communication of a Wireless Device Associated with a Vehicle	Shared-Revenue Billing System for Transmission of Wireless Data From a Vehicle	Method and System for Audibly Announcing an Indication of an Identity of a Sender of a Communication	Method and System for Audibly Announcing an Indication of an Identity of a Sender of a Communication
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Name		European Patent Convention	Patent Cooperation Treaty	United States	Chair	United States	United States	Venezuela	Patent Cooperation Treaty	
Owner		AT&T Wireless	AT&T Wireless	AT&T Wireless		A I & I Wireless	ATRI Wireless	AT&T Wireless	AT&T Wireless	
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Docket		00.00					20.50.156	531.72	532 PCT	

					4 11 - 41 - 4	Grant	
Docket	Application	Patent		Country	Application	Date	Title
Number	Number	Number	OWIG				Location Information Erase
		•	AT&T Wireless	United States	21-Dec-00		on SIM Cards
533.05	09/142313						Both Wired and Wireless
							Telecommunication
			2001-111	Arrantina	19-Dec-01		Devices
535.AR	10105972		AI&I WIREESS	Zingalinia Zingalinia			Prepaid Phone Service for
							Both Wired and Wireless
							Telecommunication
			ATSTAlizabase	Chile	20-Dec-01		Devices
535.CL	3117-2001		Alai Wiididaa				Prepaid Phone Service for
							Both Wired and Wireless
				European Patent			Telecommunication
	u 7 07 7 00 7		AT&T Wireless	Convention	21-Dec-01		Devices
535.EPC	1991484.5						Prepaid Phone Service for
				Patent			Telecommunication
				Cooperation	24-Dec-01		Devices
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535.US	09/742924	6529593	Alai Wildios				Prepaid Phone Service for
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67 E 1 IC C1	10/322218		AT&T Wireless	United States	1/-Dec-02		Sharing of Wireless
535.03.01	10/3222.10						Telephone Services for a
				Datont			Personal Wireless
				Congration			Telephone and a Vehicular
				Troops	03-Oct-01		Wireless Telephone
536.PCT	PCT/US01/31205		AT&I WIREIESS	Heary			Sharing of Wireless
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			ATOT Wilcologo	United States	03-Oct-01		Wireless Telephone
536.US	09/971080		A1&1 WIEBESS	2000			Intelligent Network
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							Or Service and Approach
							Networks
9	00/752487		AT&T Wireless	United States	29-Dec-00		Operations, Administration
539.05	03/132401				·		and Maintenance of
9	244452		AT&T Wireless	United States	15-Nov-01		Components in a Mobility
540.US	2414133			1			
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				Country	Application	Grant	
Docket	Application	Patent	2000	Name	Date	Date	Title
Number	Number	Number	Owner				Network
	4						Inter-Carrier Sort Text
	2447078		AT&T Wireless	Canada	22-Jan-03		Inter-Carrier Sort Text
47.L4	2411020			I toited States	17-Jan-03		Message Delivery
541.US	10/347504		AT&I WIFEIESS	Olimed Chates	10 Dac-01	· ·	Quick SMS Reply
542.US	10/024833		AT&T Wireless	Onliced States	12-020-61		Methods and Systems for
		40				,	Providing Application Level
				:	70		Presence Information in Wireless Communication
543.AR	10105421		AT&T Wireless	Argentina	70-NON-07		Methods and Systems for
							Providing Application Level
						,	Presence Information in Wireless Communication
543 (2)	2820-2001		AT&T Wireless	Chile	20-Nov-01		System for Providing
243:04				European Patent			Wireless Communication
	1 0001001		AT&T Wireless	Convention	20-Nov-01		Presence Information
543.EPC	1997932./			Datont			Providing Application Level
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			A TOT Missions	United States	20-Nov-01		Wireless Communication
543.US	1596720		AIGI WIIGIGSS		-		Electronic Surveillance Via
		•	AT&T Wireless	United States	27-Feb-02		Correlation of Call Legs
548.US	10/086192						Completion of Call I eas in
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549.US	10/085491	*,	Al&I Wireless	Dillico Compo			Wireless Communications
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				chear	30-Jan-98	31-Dec-02	Fraud
550.CA	2278535	2278535	AT&1 Wireless	Callada			Wireless Communications
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60/337892 60/337892 AT&T Wireless 27-Nov-01 60/337892 AT&T Wireless 27-Nov-01 60/337892 AT&T Wireless Convention 4103513.8 AT&T Wireless Cooperation PCT/US02/18053 AT&T Wireless United States 18-May-04 19-May-04 10-May-04 AT&T Wireless United States 04-Jun-02 AT&T Wireless United States 04-Jun-02 10-May-04 AT&T Wireless United States 04-Jun-02 AT&T Wireless United States 04-Jun-02	09/095327 AT&T Wireless United States 27-Nov-01 F		10/039577							
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			10/162304		AT&T Wireless	United States	04-Jun-02			

Docket	Application	Patent		Country	Application	Grant	Title
Number	Number	Number	Owner	маше	Date	Date	MSISDNs
			••••				
						*	Methods and Apparatus for Mobile Station Location
			AT&T Wireless	Canada	03-Apr-02		Estimation
565.CA	2441/64		2000				Methods and Apparatus for
,			ATR T Mireloss	China P R	03-Apr-02		Mobile Station Location Estimation
565.CN	2807712.1		AIGI WIIGIGSS				Methods and Apparatus for
			AT&T Wireless	European Patent	03-Apr-02		Mobile Station Location Estimation
365.EPC	Z/38/48.1						Methods and Apparatus for
				nonel	03-Apr-02		Restimation
565.JP	mailed		Al&i Wireless	Japan			Methods and Apparatus for
				Cough Kores	03-Anr-02		Mobile Station Location Estimation
565.KR	2003-7012902		A I & I WIREIESS	South Police	20.00		Methods and Apparatus for
					. *	· .	Mobile Station Location
XY 300	DA/2/2003/0000111		AT&T Wireless	Mexico	03-Oct-03		Estimation
SOS.IMA	100000000000000000000000000000000000000			Patent		•	Methods and Apparatus for
		**		Cooperation	03 800 00		Mobile Station Location Estimation
565.PCT	PCT/US02/10791		AT&T WIRBIESS	liealy	אס-וולע-נים		Mobile-Assisted Network
			ATRT Mireless	Inited States	08-Mar-04		Location System (MNLS) Overview
565.US	10/473926		Alg: Wildigs				Methods and Apparatus for
							Anonymous User
	•••	** :		-			Personalization in Wireless
. 31 1 333	1810617		AT&T Wireless	United States	05-Dec-01		Communication
200.00	200000		AT&T Wireless	China P.R.	17-Oct-03		Binding Information for IP Media Flows
200°CN	+			European Patent			Binding Information for IP
568.EPC	2728813.3		AT&T Wireless	Convention	16-Apr-02		Binding Information for IP
GI 895	policu		AT&T Wireless	Japan	17-Oct-03		Media Flows
6.000				Patent		-	
			200 Total	Cooperation	16-Anr-02		Binding Information for IP Media Flows
568.PCT	PCT/US02/12181		AIGI WIIGIGSS	Heav			Binding Information for IP
568.US	10/091047		AT&T Wireless	United States	04-Mar-02		Media Flows

11 23 4 20 11 A								
1111279.4 Number Owner Name Surpean Palent 16	1010	Application	Patent		Country	Application	Grant Date	Title
### AT&T Wireless European Patent 16- 2001-146264 AT&T Wireless Japan 16- 2001-146264 AT&T Wireless United States 14- 2773532.3 AT&T Wireless Convention 30- COnvention Treaty Treat	mber	Number	Number	Owner	Маше			Method and Systems for Searching and Managing
111279.4 AT&T Wireless Convention 16					European Patent	46 May 01		Information on Wireless Data Devices
16264 AT&T Wireless Japan 164		1111279.4		AT&T Wireless	Convention	10-iviay o		Method and Systems for
2001-146264 AT&T Wireless Japan 10-								Information on Wireless Data Devices
456433		2001-146264		AT&T Wireless	Japan	16-May-01		Method and Systems for
456433 14								Searching and Managing Information on Wireless
456433 AT&T Wireless United States Convention 30				:	United States	14-May-01		Data Devices
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Patent Cooperation AT&T Wireless Treaty	ć	pajjed		AT&T Wireless	Canada	24-Jun-02		Method and Apparatus for
Patent Cooperation AT&T Wireless Treaty	Ş			-				Wireless Protocol
AT&T Wireless Treaty					Patent			Capability to a Wireless Device, Such as a Wireless
10001000 Inc.				AT&T Wireless	Cooperation	24-Jun-02	_	Phone
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Docket Application Patent Owner Number Number Owner Number Number Owner 577.PC12 PCT/US02/20121 AT&T Wireless 577.US1 10/036188 6636749 AT&T Wireless 577.US1 10/036151 AT&T Wireless 577.US2 10/036151 AT&T Wireless 577.US2 10/036109 AT&T Wireless 585.US 2616507 AT&T Wireless 586.US.C1 08/652214 5754952 AT&T Wireless 586.US.C2 08/652214 5754952 AT&T Wireless 587.CN 94106449.2 94106449.2 AT&T Wireless	uper upper		Date 24-Jun-02 24-Jun-02 31-Dec-01	Date	Wireless Adapter for Use With Proprietary Hands- Free Car Kits in Support of Multi-Model Mobile Phones Bluetooth External Module for Car Radio Method and Apparatus for Providing Power and Wireless Protocol Capability to a Wireless Device, Such as a Wireless Phone
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C1 10/036188 6636749 A1 10/036151 A 10/036151 A 10/036151 A 10/036151 A 10/036151 A 10/036109 A 10/036		ration	24-Jun-02 24-Jun-02 31-Dec-01		With Prophetary Training Free Car Kits in Support of Multi-Model Mobile Phones Bluetooth External Module for Car Radio Method and Apparatus for Providing Power and Wireless Protocol Capability to a Wireless Phone
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C1 10/036188 6636749 A C1 10/036181 6636749 A C1 10/036151 A 10/036151 A 10/036151 A C2 2616507 A C3 08/440183 5541977 A C2 08/652214 5754952 C3 08/652214 5754952		ration	24-Jun-02 31-Dec-01	21-Oct-03	Bluetooth External Module for Car Radio Method and Apparatus for Providing Power and Wireless Protocol Capability to a Wireless Phone
PCT/US02/20121 10/036188 6636749 A 11 10/036151 A 10/036151 A 10/036151 A 10/036151 A 10/036151 A 10/036151 A 10/0361521		Cooperation Treaty United States	24-Jun-02 31-Dec-01	21-Oct-03	Bluetooth External Module for Car Radio Method and Apparatus for Providing Power and Wireless Protocol Capability to a Wireless Phone
10/036188 6636749 A 10/036181 6636749 A 11/036151 A 10/036151 A 10/036109 A 10/036121 A 10/03612 A 10/		Treaty United States	24-Jun-02 31-Dec-01	21-Oct-03	Nethod and Apparatus for Providing Power and Wireless Protocol Capability to a Wireless Phone
10/036188 6636749 A 110/036188 6636749 A 110/036161 110/036169 A 110/036109 A 110/036109 A 12616507 5541977 A 1261652214 5754952 13 08/652214 5754952		United States	31-Dec-01	21-Oct-03	Method and Apparatus for Providing Power and Wireless Protocol Capability to a Wireless Pouce, Such as a Wireless Phone
10/036188 6636749 A 1.C1 10/630646 6636749 A 2 10/036151 A 3 10/036109 A 3 10/036109 A 3 10/036109 A 4 94106449.2 94106449.2		United States	31-Dec-01	21-Oct-03	Providing Power and Wireless Protocol Capability to a Wireless Device, Such as a Wireless Phone
10/036188 6636749 A 1.C1 10/630646 6636749 A 2 10/036151 A 3 10/036109 A 3 10/036109 A 3 10/036109 A 4 94106449.2 94106449.2		United States	31-Dec-01	21-Oct-03	Wireless Protocol Capability to a Wireless Device, Such as a Wireless Phone
10/036188 6636749 A 1.C1 10/630646 6636749 A 2 10/036151 A 3 10/036109 A 3 10/036109 A 4 94106449.2 5541977 4 94106449.2 94106449.2		United States	31-Dec-01	21-Oct-03	Device, Such as a Wireless Phone
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C1 08/440183 5541977 C2 08/652214 5754952 94106449.2 94106449.2	AT&T Wireless	United States	06-May-02		Method and Apparatus for
08/652214 5541977 08/652214 5754952 94106449.2 94106449.2		United States	12-Mav-95	30-Jul-96	Preventing Wireless Fraud
08/652214 5754952 94106449.2 94106449.2		200			Secure
08/652214 5754952 94106449.2 94106449.2				:	Validation/Registration of
94106449.2		United States	23-May-96	19-May-98	Analog Cellular Prones
94106449.2 94106449.2		-			NAM Download Capability
94106449.2 94106449.2					Using a Wide-Area Paging
94106449.2		China P.R.	15-Jun-94	10-Oct-01	System
					A Cellular/PCS Handset
					NAM Download Capability
					Using a Wide-Area Paging
587 ID 8-155408/1994 3035158 AT&T Wireless	_	Japan	16-Jun-94	18-Feb-00	System

Patent Owner Number ATRI Wireless
363502 5722084 AT&T Wireless
2183284 AT&T Wireless
763807 AT&T Wireless
763807 AT&T Wireless AT&T Wireless
199227 AT&T Wireless
5732383 AT&T Wireless
721050 AT&T Wireless AT&T Wireless
AT&T Wireless
5737707 AT&T Wireless

					Application	Grant		
Docket	Application	Patent	Owner	Name	Date	Date	Title	
				ellertonA	09-1an-97	19-Oct-00	Automated Wireless-Call Completion Using a Paging Network	
	10092/97	721605	Algi Wiedess			0	Automated Wireless-Call Completion Using a Paging	
	2192513	2192513	AT&T Wireless	Canada	10-Dec-30	00-00-00	Automated Wireless-Call	
	07100337 1		AT&T Wireless	European Patent Convention	10-Jan-97		Completion Using a Paging Network	· · ·
	2470(1007		AT&T Wireless	Japan	10-Jan-97		Automated Wireless-Call Completion Using a Paging Network	.
	1001101101	0177000	AT&T Wireless	United States	11-Jan-96	01-Sep-98	Automated Wireless-Call Completion Using a Paging Network	
	00/3044 10	2002410	ATRT Wireless	United States	08-Sep-97	07-Sep-99	Method and Apparatus for Spatial Redundancy in Cellular Networks	
	5207005	3830134	ATOT WILDINGS	Canada	08-Apr-98	09-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix	
	2234322	2234322	AT&T Wireless	China P.R.	02-Jun-98		Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix	
	96109334.2	69806856.4	AT&T Wireless	Germany	07-Apr-98	31-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix	
	08302745.2	883317	AT&T Wireless	European Patent Convention	07-Apr-98	31-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix	
	98302715.2	883317	AT&T Wireless	France	07-Apr-98	31-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix	
	08302715.2	A83317	AT&T Wireless	Great Britain	07-Apr-98	31~Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix	J
	40.452562		AT&T Wireless	Japan	02-Jun-98		Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix	Ţ
	202201701	6060336	AT&T Wireless	United States	03-Jun-97	28-Sep-99	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix	
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597.JP.D1	2001-206584		AT&I Wireless	Japan			Method for Self-Calibration
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597.US.CP1C1	1133622	0110010					of a Wireless
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644 116	10/259558		AT&T Wireless	United States	25-Sep-02		Virtual Subscriber Network
014.03	1207467		AT&T Wireless	United States	28-May-04		
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				Linited States	19-Dec-02		Device	
639.US	10/324494		AT&I WIREIESS	Ollifed Oraco			Authomated Device	
							Behavior Management	
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							Charging and Kating	
	40/204264		AT&T Wireless	United States	19-Dec-02		Automated Device	
640.US	10/324334				.		Rebaylor Management	
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					200		Preferences	
91.110	40/22/4150		AT&T Wireless	United States	19-Dec-02		Control of Security or	
641.US	10/324138						Esse-of-Use Sensitivity for	٠.٠
							a Wireless Communication	
							Device	
0.00	40/23/4870		AT&T Wireless	United States	19-Dec-02		Verification System for	
042.03	10055001			,			Escitisting Transactions	
							via Comunication	
							Networks and Associated	
				Coperation Production	20.00.02		Method	•
5/1/10	10/325408		AT&T Wireless	United States	70-020-07		General Purpose	•
20.446	2000			··			Automated Activation and	
				1 Inited States	31-Oct-03		Provisioning Technologies	
645.US	10/700301		AI&I WIREIESS	OIIIIGO OIGIGO			Self-Activation via Wired	
			code:Nat Fork	United States	01-Nov-02		Web and Device	
645P.US	60/423224		Al&I Wireless	2000			System and Method for	
							Network Data Quality	
			AT&T Wireless	United States	31-Dec-02		Measurement	
646.US	1779371						Networks and Memous	
· ·						,,	Integrating Digital Mobile	
			AT&T Wireless	United States	23-May-03		Standards 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
649.US	10/445173						Mossacing System	
852118	10/364421	٠	AT&T Wireless	United States	12-Feb-03		Messagnin O'signin	
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653.US	10/346497		AT&T Wireless	United States	18-Jan-03		DOOR CHUISS	•
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Docket	Application	Patent		Country	Application Date	Grant Date	Title
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TO THE PARTY OF TH				Patent			System for Wireless Network and Associated
		·.		Cooperation	10, 11,0-03		Method (Friend Finder)
	DCT#1002/18/40		AT&T Wireless	Treaty	20-106-01		System for Providing
355.PCT	PC1/0303/10443					٠	Location-Based Services in
							a Wireless Network, Such
	•		9				as Locating Individuals and
				Charles Charles	20-Dec-02		Coordinating Meetings
9	70070070		AT&T Wireless	United States	20-000-02		System for Providing
655.US	10/324904						Location-Based Services in
-							a Wireless Network, Such
							as Modifying Locating
							Privileges Among
							Individuals and Managing
							Lists of Individuals
							Associated with Such
				Chatal Chata	20-00-02		Privileges
3	40/205566		AT&T Wireless	United States	20.000-07	 	Apparatus and Systems for
655.UST	10.32.3300						Providing Location-Based
							Services Within a Wireless
					20.Dec.02		Network
	40/325220		AT&T Wireless	United States	70-00-07		Data Structures and
655.USZ	10/362610						Methods for Location-
				•	<u>.</u>		Based Services Within a
				adday of the second	20-Dec-02		Wireless Network
	401075030		AT&T Wireless	United States	70-020-07		Method for Providing
655.US3	10/325032						Location-Based Services in
						_	a Wireless Network, Such
							as Varying Levels of
				1 Inited States	20-Dec-02		Services
655.US4	10/325322		Al&I Wireless	Datent			
				Cooperation			Profile Driven Response to
				Cooperation I	24.004.03	· ·	Communication Events
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020.701	200000			11-ited Ctator	28-Oct-02		Communication Events
858 1 IS	10/281651		AT&T Wireless	United States			Simplified Wireless Device
20:00				United States	11-Jul-03		Pairing
665.US	10/617437		Al&i wireless	2000			System and Method to
				Patent			Wide-Area Wireless
				Cooperation	23.004.03		Networks
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10/324613 AT&T Wireless United States 20-Dec-02 Wireless United States 20-Dec-02 Wireless Treaty Cooperation Discription								Alternate Data Pams in a
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			AT&T Wireless	United States	10-30m-03		Application of Dynamic	
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				Linited States	27-Jun-03		Alphanumeric Keypad	_
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			AT&T Wireless	Japan	24-Feb-98		Highly Bandwidth-Efficient	
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Docket Application Patent Owner Name Country Application Graft Title Number Number Number Number Number Attit wireless United States 20-Jud-04 Communications System 703.US C1(6) malled AT\$T Wireless United States 10-Jud-04 Communications System 702.CA 2278622 2278622 AT\$T Wireless Communications System Communications System 702.CA 2278622 2778622 AT\$T Wireless Communications System Communications Communi									
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CZ78852 AT&T Wireless Canada 03-Feb-98 09-Apr-02 CC C 98908475.1 AT&T Wireless European Patent 03-Feb-98 09-Apr-02 CC C 10-534899 AT&T Wireless Japan 03-Feb-96 CC C 997160 20942 AT&T Wireless United States 05-Feb-96 02-Aug-02 S 08/79584 5933421 AT&T Wireless United States 06-Feb-97 03-Aug-99 C S,C1(1) 10/383976 AT&T Wireless United States 07-Mar-03 06-May-03 C S,C1(1) 10/383976 AT&T Wireless United States 07-Mar-09 06-May-03 C S,D1 09/222895 6047200 AT&T Wireless United States 07-Mar-09 04-Apr-00 C A 2281816 2281816 AT&T Wireless Canada 24-Feb-98 01-Apr-00 C PC 39891401.2 AT&T Wireless Convention 24-Feb-98 01-Apr-03 C	1	mailed		AI&I WITELESS	T			Method for Frequency	
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Docket	Application	Patent		Name	Date	Date	Title	
Number	Number	Number	Owner	Manne			Adaptive Weight Update	
				_		•	Method and System for a	
							Discrete Multitone Spread	
							Spectrum Communications	
			44641414144	Inited States	31-Oct-00	18-Jun-02	System	
713.US.C2C1	09/699361	6408016	AI&I Wireless	Compo Comico			Inventory Pipeline	
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	AT&T Wireless	United States	21-Apr-98	13-Feb-01	Complexity Decoding of Space-Time Codes for Fixed Wireless
	AT&T Wireless	United States	21-Apr-98	13-Feb-01	Space-Time Codes for Fixed Wireless
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	Owner		AT&T Wireless			AT&T Wireless					AT&T Wireless					AT&T Wireless					AT&T Wireless					AT&T Wireless					AT&T Wireless					AT&T Wireless				AT&T Wireless	AIGH WHENESS		AT&T Wireless	
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Title	Codes for Wireless Applications	Low Complexity Maximum	Concatenated Space	Codes for Wireless	Applications	Low Complexity Maximum	Likelihood Detection of	Concatenated Space	Codes for Wireless	Applications	Method for Combining	Communication Beams in	a Wireless Communication	System	Method for Combining	Communication Beams in	a Wireless Communication	System	Method for Location-	Based Asset Management	Method for Location-	Based Asset Management	Method and Apparatus for	Vibration and Temperature	Modimina Datio	Transmission	Maximum Ratio	Transmission	Method for Error	Compensation in an Urum	System Willi Diversity	Compensation in an OFDM	System With Diversity	Method for Error	Compensation in an OFDM	System With Diversity		Method for Improving	Efficiency in a Time	
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Title	Sharing Network	Method for Improving	Efficiency in a Time Sharing Network	Method for Improving	Efficiency in a Time Sharing Network	Method for Improving	Efficiency in a Time	Sharing Network	Method for improving Efficiency in a Time	Sharing Network	Method for Improving	Efficiency in a Time	Sharing Network	Automatic Gain Control	Methods and Apparatus	Describers	Automotic Cala Control	Methods and Apparatus	Sultable for Use in OFDM	Receivers	Automatic Gain Control	Methods and Apparatus	Suitable for Use in OFUM	Receivers	Methods and Apparatus for	Use in Reducing Residual	Communication Signals	Methods and Apparatus for	Use in Reducing Residual	Phase Error in OFDM	Communication Signals	Methods and Apparatus for	Use in Reducing Kesidual	Communication Signals	Detection of Cross-	Connection Between a	
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							a Plurality of Pilot Signals
							Methods and Apparatus for
							Use in Obtaining
							Frequency Synchronization
							in an OFDM
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							Use in Obtaining
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							Use in Obtaining Frequency Synchronization
			. —				in an OFDM
				United States	14-Jun-00	27-Jul-04	Communication System
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							Use in Obtaining
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750.03	2000011						Use in Obtaining Frame
				Patent			Synchronization in an
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751.PCT	PCT/US01/15891		Al&i wireless	1			Methods and Apparatus for
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764 110	452050	-	AT&T Wireless	United States	13-Jun-00		Method and Apparatus for
131.03	20070						Use in Reducing Traffic
						:	Over a Communication
٠.							Link Used by a Computer
			AT&T Wireless	Argentina	21-Jun-00		Network
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Docket	Application	Patent		Country	Application Date	Date	Title
Number	Number	Number	Owner	2010			System and Method for
				Chates States	17-May-00	03-Sep-02	Availability
760.US	09/572144	6445912	AIĞI Wireless				Intelligent Presentation Network Management
			AT9T Mireless	United States	24-Feb-00		Systems
761.US	09/511168		Alai Wileisas				Session Subscription
			100	Brazil	20-Dec-00		System and Method for
765.BR	0005942-0		Alai Wireless	0.02			Session Subscription
				200	16-Nov-00		System and Method for Same
765.CA	2326572		AT&I Wireless	Callada			Session Subscription
				European Patent	20-Dec-00		System and Method for Same
765.EPC	311492.3		Ala Wireless				Session Subscription
			1	Movioo	20-Dec-00		Same
765.MX	12896		AT&T Wireless	MEXICO			Session Subscription
				7	20,00		Same
765.US	09/474839		AT&T Wireless	United States	30-060-88		Subscription-Based Billing
							Methods and Systems for
							Pools
0 00	406004		AT&T Wireless	Argentina	ZZ-Dec-00		Subscription-Based Billing
768.AK	DEGUL						Methods and Systems for
							Shared Network Modem
			ATOT Missions	Brazil	21-Dec-00	·	Pools
768.BR	0006220-0		AIG WIEGOS				Subscription-Based Billing
							Shared Network Modem
				European Patent	27-Oct-00		Pools
768.EPC	309465.3		AT&T Wireless	COIIVERINO			Subscription-Based Billing
							Methods and Systems for Shared Network Modern
					70,00-00		Pools
768 MX	12898		AT&T Wireless	Mexico	20-290-02		Subscription Based Billing
						1	Methods and Systems for Charge Nothing Modern
4				200	00 Con 00		Pools
768.US	09/665780		AT&T Wireless	United States	20-267-02		Synchronization of
				1 Inited States	19-Dec-01	٠.	Communication System
769.US	10/028573		AT&T Wireless	Olinea States		 	· · ·

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Number	Number	Number	Owilei	2			Data Link Layer Tunneling
							Technique for High Speed
							Data in a Noisy Wireless
			TOTAL MINISTER	Linited States	24-Oct-00	24-Feb-04	Environment
770.US	09/694943	6697983	AIGI WIIGIGSS	2000			Data Link Layer Tunneling
		-					Technique for High Speed
			-				Data in a Noisy Wireless
				Linited States	28-Jan-04		Environment
770.US.C1	10/767246	*	AI&I WIREIESS	חווונפת סיפונס			Medium Access Dynamic
							Congestion Control
							Mechanism for Wireless
				United States	21-Dec-00	20-Jul-04	Data
772.US1	09/745216	6765869	A1&1 Wireless	חווובח סומונס			Medium Access Dynamic
							Congestion Control
	-						Mechanism for Wireless
				United States	21-Dec-00	20-Jul-04	Data
772.US2	09/745219	6765870	A I & I WIREIESS	חוווכח כופונס			Collision-Free Multiple
			-	•			Access Reservation
				Furnhean Patent			Scheme for Multi-Tone
			2001-1141	Convention	11-Dec-00		Modulation Links
775.EPC	311028.5		Al&i Wireless	COLINGIA			Collision-Free Multiple
							Access Reservation
							Scheme for Multi-Tone
		****	A TOT (Allector)	1 Inited States	18-Jul-00		Modulation Links
775.US	09/618653		Alai wireless	Ollico October			Method and Apparatus for
				•			Efficient Sharing of
							Communication System
		:	ATRT Mirelace	United States	28-Nov-00		Resources
778.US	228522		AIGH WHENDS				Method and Apparatus for
							Efficient Shanng or
				· 			Communication system
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					OB Eah 01		Factor
779.AR	10100580		AT&T Wireless	Argentina	1000	-	A Deal-Time System for
				Patent			Measuring the Ricean K-
				Cooperation	70 1-1-1		Factor
779.PCT	PCT/US01/03854		AT&T Wireless	Treaty	07-1-60-01		System and Method for
				:			Providing Service Provider
							Choice Over a High-Speed
			AT9T Wireless	United States	26-Dec-01		Data Connection
781.US	10/036315		ATON WHOIGHS		42 1.4 04		Adaptive Dual-Polarization
782.AR	10103358		AT&T Wireless	Argentina	10-101-01		
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722695	AT&T Wireless	Taiwan	18-Oct-01		Method for Providing
722695				•	Transparent Public
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	A G WIEGES	Compo Comio			Method for Estimating
		•	· • • •		Changes in Product Life
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Method for Estimating Changes in Product Life Resulting From HALT Using Ordardatic Acceleration Model 11-Jun-01 Turbo Channel Estimation for OFDM Systems System and Method of Assigning Priority to Remote Units in a Collision Free Multiple Access Protocol System and Method of Assigning Priority to Remote Units in a Collision Free Multiple Access Protocol System and Method of Assigning Priority to Remote Units in a Collision Free Multiple Access Protocol System and Method of Assigning Priority to Remote Units in a Collision Free Multiple Access Protocol System and Method of Assigning Priority to Remote Units in a Collision Free Multiple Access Protocol System and Method of Assigning Priority to Remote Units in a Collision Free Multiple Access Protocol System and Method of Assigning Priority to Remote Units in a Collision Free Multiple Access Protocol System and Method of Assigning Priority to Remote Units in a Collision Assigning Priority to Remote Units in a Collision Multi-Service Network Interface Apparatus for Frequency-Division Multiplexed Communications Systems	Application Patent Country Number Number Owner	Owner		Country		Application Date	Grant Date	Title Acceleration Model
s 25-Jul-02					+			Method for Estimating
s 25-Jul-02								Changes in Product Life Resulting From HALT
11-Jun-01 for 15-Jun-01 Sy As	States States			United State	-	96-Jul-01		Acceleration Model
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30-Apr-02	1 United States			United	States	24-Apr-02		Wireless Communications
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							Frequency-Division
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							Telephone Communication
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853.US	10/615892		COOL MICHOLD				Integration of Wireless and
							External Computing
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2012							Fingerprinting by HTTP
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				Linited States	15-Sep-03		Address Authentication
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				1 Inited Chates	14-Oct-03		for Mobile Devices
862115	10/685616		AT&T Wireless	COURTON COURTON			Method, System and
							Apparatus for Providing
						-	Wireless Identification to
				1 Inited States	15-Nov-03		Standard Telephone
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81 9 P 1 IS	60/543952		AT&T Wireless	Officed States			Method and Apparatus for
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Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Maine			Carrier IP Networks
							System and Method for
							Telecommunications
				2000	26 May 04		Network
SR3P US	60/557153		AT&T Wireless	United States	CJ-INIGI -O-		Terminal-Based Server for
				United States	24-Sep-04	•	Location Tracking
886.US	mailed		Al&i Wireless	Ollingo Ordino			Sharing Content on Mobile
			AT&T Wireless	United States	09-Apr-04		Devices
887.US	10/821608		2000				System and Method for
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889.US	10/822187		AT&T Wireless	Ollifed States			Identifying A Device to a
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9	13010101		AT&T Wireless	United States	14-Jun-04		Reduce Roaming Charges
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mailed AT&T Wireless United States 13-Aug-04 Mailed Ma								Locator Systems, Such as for E911 Phase II
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			Wireless/Atmel		90 4 00	16. lan.02	Kinds (PBS #3)
	06040624.4	848888	Corp.	Great Britain	30-Aug-90	-	A Mobile
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			Wireless/Atmel		90,010,06	•	and Method of Operation
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			AT&T				Base Stations of Different
			Wireless/Atmel		30.410-96	15-Jun-01	Kinds
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546P1.US	6/2002/09	\ \ \ \					Payment Methods and
		-	AT&T	Linited Chatee	11-Feb-02		Apparatus
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							Database Table
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Application					1	Application	Grant	
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Op/1895 Wireless United States United	Number	Number	Number	AT&T/AT&T	-	***************************************		Method and Apparatus for Sharing Wireless Content
Mineless	572.US	09/801635		Wireless	1	08-Mar-01		Progressive Reuse
1035707 Wireless Carlada Car				AT&T/AT&T		AS Nov. 02		Partitioning for Improved Interference Rejection in Wireless Packet Networks
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D9/78304-3				Wireless	United States	15-Feb-01		Communication System
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2731814.6 Wireless Outvertion PCT/US02/15451 AT&T/AT&T Cooperation 15-May-02 PCT/US02/15451 Wireless Treaty 12-Jun-01 AT&T/AT&T United States 12-Jun-01 Claircom Claircom United States 21-Apr-94 10-Oct-95				AT&T/AT&T	European Patent	15-Mav-02		Integrity of Transmitted Data
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PCT/US02/15451 AT&T/AT&T Couperation: 15-May-02 PCT/US02/15451 Wireless 12-Jun-01 AT&T/AT&T United States 12-Jun-01 Claircom Claircom United States 21-Apr-94 10-Oct-95					Patent			Method for Validating Integrity of Transmitted
AT&T/AT&T AT&T/AT&T Wireless United States 12-Jun-01 Wireless Claircom United States 21-Apr-94 10-Oct-95				AT&T/AT&T	Treaty	15-May-02	.	Data Surtem and
09/879575 AT&T/AT&T United States 12-Jun-01 Wireless United States 12-Jun-01 Claircom Communications United States 21-Apr-94 10-Oct-95	743.PCT	PC1/US02/15451				. •	·. ·.	Method for Validating
O9/879575 Claircom Claircom Communications United States 21-Apr-94 10-Oct-95				AT&T/AT&T	octobal Chatter	12, hin-01		Integrity or rights integral Data
Claircom Communications United States 21-Apr-94 10-Oct-95	743.US	09/879575		Wireless	Onlied States			Airline Telephone Handset
Claircom Claircom United States 21-Apr-94 10-Oct-95								With Digital Passenger Control Functions and
		000004670		Claircom Communications	United States	21-Apr-94	10-Oct-95	Video Game Controls

Application Patent	Patent	l			Application Date	Grant Date	Title
Number Number	Number		Owner	Name			Airline Telephone Handset
Claircom	Clairco	Clairco				23 I20-06	With Digital Passenger Control Functions and Video Game Controls
29/021800 D366482 Commu		Commu	Communications	United States 2	25-Apr-94	22-281-22	Airline Telephone Handset
monieto							Control Functions and
29/040119 D370910 Comm		SES	Communications	United States	19-Jun-95	18-Jun-90	Telephone Handset and
5652792		Claire	Ciaircom Communications	United States	07-Jun-95	29-Jul-97	Cradle
18022		Com	Claircom Communications	Austria	08-Sep-95	20-Oct-95	Telephone Handset
38 77925	7.	Claire	Claircom Communications	Canada	07-Sep-95	25-Jan-96	Telephone Handset
4 M9507231.4	231.4	Coair	Claircom Communications	Germany	07-Sep-95	21-Feb-96	Telephone Handset
054887		S Sair	Claircom Communications	France	11-Sep-95	09-Feb-96	Telephone Handset
		Com	Claircom Communications	Great Britain	08-Sep-95	25-Jan-96	Telephone Handset
9900591		Clair	Claircom Communications	Hong Kong	10-Mar-95	23~Jul-99	Telephone Handset
95 192764		Sai	Claircom Communications	South Korea	07-Sep-95	03-Feb-97	Telephone Handset
59555		S S	Claircom Communications	Sweden	08-Sep-95	96-unr-90	Telephone Handset
3 2050278		ខ្លួន	Claircom Communications	Singapore	08-Sep-95	25-Jan-96	Telephone Handset
o D371553		වී වී	Claircom Communications	United States	10-Mar-95	96-Jnf-60	Telephone Handset
c		200	Claircom Communications	European Patent Convention	08-Mar-96		Tube Mounted Telephone Handset in ah Armrest
	86	33	Claircom Communications	Hong Kong	26-Jun-98		Handset in an Armrest
5627891		53	Claircom Communications	United States	10-Mar-95	06-May-97	Handset in an Armrest
3021001							·

Docket Application Number Number Number Patent Number Number 191.DE 29580194.8 29580194.8 191.DE 29580194.8 29580194.8 191.JP 527740/95 10-348946 191.KR 10-1996-705967 10-348946 191.KR 10-1996-705967 10-348946 191.KR 10-1996-705967 10-348946 191.KR 10-1996-705967 5463678 195.US 08/040179 5410597 196.US 08/040178 5394467 199.US 29/007592 D361568 251.US.C1 08/451719 6393281 259.US.C6C2C2 09/451579 6393281 259.US.C6C4C1 Mailed 6449287					
Number Number Number Number Number 29580194.8 29580194.8 29580194.8 29580194.8 29580194.8 29580194.8 29580194.8 29580194.8 2958011 2958011 2958011 2958011 2958011 29580119		Country	Application Date	Grant Date	Title
29580194.8 29580194.8 527740/95 10-1996-705967 10-348946 10-1996-705967 10-348946 S 08/040180 5463678 S 08/040179 5410597 S 08/042426 5455964 IS 29/007592 D361568 IS 29/007592 D361568 US.C6C2C2 09/451579 6393281 US.C6CAC1 Mailed · 6449287		Name			Aircland Telenhone
S 08/040179 546367 10-348946 10-1996-705967 10-348946 10-1996-705967 10-348946 10-1996-705967 10-348946 10-348946 10-348946 10-3489467 10-348946 10-3489467 10-348946 10-34896 10-	Communications Communications	Germany	25-Apr-95	20-rep-9/	
S 08/040179 5394467 S 08/040179 5463678 S 08/040179 5463678 S 08/040179 5410597 S 08/040179 5410597 S 29/007592 D361568 JS.C1 08/451779 6393281 US.C6C2C2 09/451579 6393287	Claircom	Japan	25-Apr-95		Airplane Telephone
10-1996-705967 10-348949 PCT/US95/04821 95/04821 08/040180 5463678 08/040179 540597 08/040178 5394467 S.C1 08/042426 5455964 S.C2 09/451719 6393281 S.C6C2C2 09/451579 S.C6C4C1 Mailed · 6449287		South Korea	25-Apr-95	02-Aug-02	Airplane Telephone
965011 PCT/US95/04821 95/04821 08/040180 5463678 08/040179 5410597 08/040178 5394467 5 29/007592 D361568 5 CCC2C2 09/451719 6393281 5 CCCCC 09/451579 S.C6C4C1 Mailed · 6449287					Airplane Telephone
PCT/US95/04821 95/04821 08/040180 5463678 08/040179 5410597 08/042426 5394467 S.C1 08/451719 6393281 S.C6C2C2 09/451579 S.C6C4C1 Mailed . S.C1 09/520806 6449287	Communications	Mexico	25-Apr-95		
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08/040180 5463678 08/040179 5410597 08/040178 5394467 08/042426 5455964 5.C1 08/451719 6393281 5.C6C2C2 09/451579 5.C6C4C1 Mailed · 6449287			26 Mar 03	31-Oct-95	Credit Card Reader
6.CGC2C2 09/451579 6.CGC2C2 09/451579 6.CGC 09/451679		United States	CG-18IVI-02		Wired Seat Back Aircraft
08/040178 5394467 08/040426 5455964 29/007592 D361568 5.C6C2C2 09/451779 6393281 5.C6C4C1 Mailed · 6449287	Claircom Communications	United States	26-Mar-93	25-Apr-95	Telephone Set
.c1 08/040178 5394467 08/042426 5455964 29/007592 D361568 .C1 08/451719 6393281 .C6C2C2 09/451579 .C6C4C1 Mailed · 6449287	Claircom			28-Feb-95	Multi-Purpose Telephone Strain Relief
C1 08/042426 5455964 29/007592 D361568 C1 08/451719 6393281 C6C2C2 09/451579 S.C6C4C1 Malled · 6449287		United States	20-Mai -93		Stabilization of Frequency
C1 08/042426 5455964 29/007592 D361568 C1 08/451719 6393281 C6C2C2 09/451579 C6C4C1 Malled . C6C4C1 09/520806 6449287	Claircom	United States	26-Mar-93	03-Oct-95	Communication System
C1 08/451719 6393281 C6C2C2 09/451579 6393287 C6C4C1 Mailed 6449287				22-Aug-95	Airplane Telephone Set
C1 08/451719 6393281 C6C2C2 09/451579 C6C4C1 Malled . C1 09/520806 6449287		United States	26-Mar-93	25 Roy 77	Seamless Hand-Off for Air-
C2C2 09/451579 C4C1 Mailed . 6449287	393281 Communications	United States	26-May-95	21-May-02	Multi-Nodal Digital Telephone Distribution
Mailed ` 6449287	Claircom Communications	United States	30-Nov-99		System Multi-Nodal Digital
09/520806 6449287	Claircom	United States	14-Mar-01		System Short Messaging Method
09/32/1800		United States	08-Mar-00	10-Sep-02	Passengers Short Messaging Method
			V 02-Aug-02	·	and System for Airborne Passengers
375.US.C1(1) 10/211929	Communications	United States	- A A A A A A A A A A A A A A A A A A A		•

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Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	McCaw Cellular		14.Dec.94	10-Apr-95	Wireless Communications Terminal
153.DE	M9409857.3	M9409857.3	Communications	Germany	100000		Wireless Communications
1 10 634	861/94	17729	McCaw Cellular Communications	Finland	21-Dec-94	29-Sep-95	Terminal
133.FL. 1			McCaw Cellular	pueluia	21-Dec-94	29-Sep-95	Wireless Communications Terminal
153.FL.2	862/94	17730	Communications				
	•						Wireless Communications
453 510	946994	946994	McCaw Cellular Communications	France	22-Dec-94	31-Mar-95	Terminal
			McCaw Cellular	Yet.	22-Dec-94	20-Apr-00	Wireless Communications Terminal
153.IT	TO940000254	69309	McCaw Cellular	(in)		30 don 90	Wireless Communications Terminal
153.IP	39446/1994	953799	Communications	Japan	22-Dec-94	20-180-80	Wireless Communications
163 CF 1	942575	57901	McCaw Cellular Communications	Sweden	22-Dec-94	05-Jul-95	Terminal
			McCaw Cellular	Coponio	22-Dec-94	05-Jul-95	Wireless Communications Terminal
153.SE.2	942576	57902	Communications	Oweden			-
		6708228	Teleflex information Systems, Inc.	United States	04-Sep-01	16-Mar-04	Multithreaded Batch Processing System
· 2001-TE001	09/944380	6132167	Teleflex Information Systems, Inc.	United States	04-Jun-97	18-Dec-01	Multithreaded batch Processing System
2001-1-001	7,600,000		Teleflex Information	Initial Chatee	10_Aor-94	16-Sep-97	Multithreaded Batch Processing System
2001-TE001	08/229526	5668993	Systems, Inc.	Ollifed Creates			Method and Apparatus for
	· ·		Teleflex Information	Canada	23-Feb-95		Processing Discrete Billing Events
2001-TE002	2184368	. *	Oysteris, inc.	╫			Processing Discrete Billing
2004-TE002	08/698277	5724584	Teleflex information Systems, Inc.	United States	19-Apr-94	03-Mar-98	Events
1	+		Teleflex Information	Canada	23-Feb-95		Batching Billing System
2001-TE003	2184369		Sami Samore			•	

				Country	Application	Grant	(1714
4-1-1-4	Application	Patent		Nemo	Date	Date	9111
Docket	Application	Number	Owner	Name			
Number	Muliper						No-Reset Option in a
			Teleflex Information		24 A.i.a O4	02-Dec-03	Batching Billing System
		907000	Systems, Inc.	United States	O-Row-17		
2004 TEON3	09/938827	6628486		-			C O
2001-1002							No-Keset Option in a pare.
			Teleflex Information		20 Jun-00	28-Aug-01	Billing System
		•	Systems Inc.	United States	20-100-04		No Reset Option in a
2003	09/340384	6282519	Systems)			•	Section Cyclem
2001-1-1002			Teleflex information	11-ited Chates	25-Jan-95	07-Dec-99	Batching billing of sec
		5000016	Systems, Inc.	United States			No-Reset Option in a
2001-TE003	UL9/16/0	2.2222	Tologov Information				Batching Billing System
			Bleney mignistra	United States	17-Jul-03		
-	40/E2210B		Systems, mc.	2			
2001-TE003.C1	10/022100						

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